

<110> Human Genome Sciences, Inc.

<120> 148 Human Secreted Proteins

<130> PZ019.PCT

<150> 60/063,099

<151> 1997-10-24

<150> 60/063,088

<151> 1997-10-24

<150> 60/063,387

<151> 1997-10-24

<150> 60/063,148

<151> 1997-10-24

<150> 60/063,386

<151> 1997-10-24

<150> 60/062,784

<151> 1997-10-24

<150> 60/063,091

<151> 1997-10-24

<150> 60/063,090

<151> 1997-10-24

<150> 60/063,089

<151> 1997-10-24

<150> 60/063,092

<151> 1997-10-24

<150> 60/063,111

<151> 1997-10-24

<150> 60/063,101

<151> 1997-10-24

<150> 60/063,109

<151> 1997-10-24

<150> 60/063,110

<151> 1997-10-24

<150> 60/063,097

<151> 1997-10-24

<150> 60/063,100

<151> 1997-10-24

<150> 60/063,098

<151> 1997-10-24

<160> 492

<170> PatentIn Ver. 2.0

<210> 1

<211> 733

<212> DNA

<213> Homo sapiens

<400> 1

gggatccgga	gccccaaatct	tctgacaaaa	ctcacacatg	cccaccgtgc	ccagcacctg	60
aattcgaggg	tgcaccgtca	gtcttctctt	tccccccaaa	acccaaggac	accctcatga	120
tctccccggac	tcctgaggtc	acatgcgtgg	tggtggacgt	aagccacgaa	gaccctgagg	180
tcaagttcaa	ctggtacgtg	gacggcgtgg	aggtgcataa	tgccaagaca	aagccgcggg	240
aggagcagta	caacagcacg	taccgtgtgg	tcagcgtcct	caccgtcctg	caccaggact	300
ggctgaatgg	caaggagtac	aagtgcgaag	tctccaacaa	agccctccca	acccccatcg	360
agaaaacccat	ctccaaagcc	aaagggcagc	cccgagaacc	acaggtgtac	accctgcccc	420
catcccggga	tgagctgacc	aagaaccagg	tcagcctgac	ctgcctggtc	aaaggcttct	480
atccaagcga	catcgccgtg	gagtgggaga	gcaatgggca	gccggagaac	aactacaaga	540
ccacgcctcc	cgtgctggac	tccgacggct	ccttcttctt	ctacagcaag	ctcaccgtgg	600
acaagagcag	gtggcagcag	gggaacgtct	tctcatgtct	cgtgatgcat	gaggctctgc	660
acaaccacta	cacgcagaag	agcctctccc	tgtctccggg	taaatgagtg	cgacggccgc	720
gactctagag	gat					733

<210> 2

<211> 5

<212> PRT

<213> Homo sapiens

<220>

<221> Site

<222> (3)

<223> Xaa equals any of the twenty naturally occurring L-amino acids

<400> 2

Trp	Ser	Xaa	Trp	Ser
1				5

<210> 3

<211> 86

<212> DNA

<213> Homo sapiens

<400> 3

gcgcctcgag	atttccccga	aatctagatt	tccccgaaat	gatttccccg	aaatgatttc	60
cccgaatat	ctgccatctc	aattag				86

<210> 4

<211> 27

<212> DNA

<213> Homo sapiens

<400> 4

gcggcaagct ttttgcaaag cctaggc

27

<210> 5

<211> 271

<212> DNA  
<213> Homo sapiens

<400> 5  
ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg 60  
aaatatctgc catctcaatt agtcagcaac catagtcccc cccctaactc cgcccatccc 120  
gccccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180  
ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240  
ttttggaggc ctaggctttt gcaaaaagct t 271

<210> 6  
<211> 32  
<212> DNA  
<213> Homo sapiens

<400> 6  
gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 7  
<211> 31  
<212> DNA  
<213> Homo sapiens

<400> 7  
gcgaagcttc gcgactcccc ggatccgcct c 31

<210> 8  
<211> 12  
<212> DNA  
<213> Homo sapiens

<400> 8  
ggggactttc cc 12

<210> 9  
<211> 73  
<212> DNA  
<213> Homo sapiens

<400> 9  
gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg 60  
ccatctcaat tag 73

<210> 10  
<211> 256  
<212> DNA  
<213> Homo sapiens

<400> 10  
ctcgagggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct 60  
caattagtca gcaaccatag tcccggccct aactccgccc atcccgcgcc taactccgcc 120  
cagttccgcc cattctcgcg cccatggctg actaattttt tttatttatg cagaggccga 180  
ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240

cttttgcaaa aagctt

256

&lt;210&gt; 11

&lt;211&gt; 826

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 11

ggcaccagaaa	tatatggtct	tttgtgattc	tatttatagg	aaatgtccag	aataggcaaa	60
tctacagaaa	cagaaaacta	gattgggtgat	cgcctagagc	ttggggcagg	gggtggggag	120
tgggtaaatga	cttctaata	gtttcttttt	aaggtgatga	aaatgttgta	aaattgattg	180
tgattattgt	actaaaaacc	atttaacgta	tattaagggtg	ggttaattgt	atggcatgcg	240
atattatct	caacaaagct	gtgagtgtgt	gcgcccattg	atggatgtgt	atgtgtgtgt	300
atatactct	atacatgtat	acatggatgc	ccatgtgtat	ctatgtagaa	tatgtaaaac	360
aaacatgagg	tagtttgata	tttgagtctg	gagctacaga	gagatctaag	cccagcgatc	420
aagattcaga	aatcagcagt	cactgaggtt	gtagtagcta	atgggattgt	ctaaaggaaa	480
tgagagggga	ggagaatggg	tttccacaga	caaccctctt	tggaaactga	aaagaaatca	540
ctagacagaa	gggaatgaac	tagagaagac	tggctaactt	ggaggtcaag	tgtgagcttc	600
attttctgcc	tgcgaggtgg	gaaacttatt	tctaactgat	tctctgggtt	tcaacacatc	660
ctctgggttc	tccagggcat	aggggaggtc	tgctgtgtca	ctgtggcagt	ggggagtgga	720
agactgaata	aatattgcaa	atggagggac	cagccagagg	gtgcaaaggc	ctcgggagca	780
tgagggaaatg	cagctcacca	gcagagtctt	aagcagttca	ctatgg		826

&lt;210&gt; 12

&lt;211&gt; 524

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 12

gcacagaggg	cttgggtgca	ggtggtttat	ttgggaagtc	atcctggaaa	atccaaaagg	60
aagggatgga	gaagagatag	aagacaagaa	agaatgcatt	gctcgtgggt	catgggtata	120
gaaagtttct	aggaagcttc	tgcagaacct	tatgcaatgt	gcctcgaatt	gtccaaggaa	180
ttgaatgggg	agctggtgca	tttgtacact	acttctgttg	ctcactgatg	ggcaacaggg	240
cttttatecc	cagcctttcc	aggetgcccc	ggggagacag	cagctatggg	gaggcaccaa	300
cccattgggt	gtactcattc	cagaatcctt	cctccccctac	acgctgacag	tcaattattc	360
accaagttgt	aacttcgaat	tctacttacc	taaaatgcgt	ttggcataca	tctgcatgtc	420
acactcacac	tgtccctatc	ttggctcgaga	cattataatc	actctcctga	actactgcag	480
cagcttccta	gctgaactcc	tggtctcatc	ggtctatatt	gctg		524

&lt;210&gt; 13

&lt;211&gt; 491

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 13

ggcaccaggg	aaaagcttgt	gctgttagct	ttaaagtgtg	tttaaaataa	atctgaaatc	60
atttaaacag	catgaacctt	ggtggccaaa	tagatcaatg	acaaagagga	gaaaacctag	120
atacaggttc	atttttgcct	tatatgcttt	gagattagtg	tttctattta	gagctgtgac	180
taatacagat	gcatcacggc	tgagagcaaa	gcgaggtgaa	tgtccctatt	aattgccacc	240
atggtgcgag	gctggaatga	gggtgtggcc	agctaagagg	ggatttgctc	ttcttgccct	300
agaagtccct	cattgtttcc	tgtcctgtct	tgtgtccagc	tgcttagcac	acttcctttt	360
ggtattttaat	gctttttata	gctggaacct	tgaggttcct	cagaaatctg	cacatgctta	420
ctagatgggtg	ctctggattt	tcttttaaaga	taggaagaaa	aaggcaaagg	caggtctgtg	480
acgcttctta	c					491

<210> 14  
 <211> 403  
 <212> DNA  
 <213> Homo sapiens

<400> 14  
 ggcacgagcg gggccctaga gāgcactcgg aggtccaaac ccctcatcct aaagaagggg 60  
 acgctgcggc catgacattc catgcctccc aaggctctag agctataaaa tggaggagcc 120  
 atgactgagg gcctgctgtc tctctctca ttgttactgt atttattaac ctgggtactt 180  
 atgctttcca aaaagcttta tgtgcaaag atcctttgct ataattccaca cttcagtcag 240  
 atggatgcat gcaatggaac cagtcagaag atccacaatg ctagacagt cactgatgt 300  
 gcagttcctg gaatggagct ctcttcccca aagccaaatg ttttctctga aaccctctgt 360  
 tctttaacgc tgaagtctctg gatgcctgct agggagcagct cga 403

<210> 15  
 <211> 813  
 <212> DNA  
 <213> Homo sapiens

<400> 15  
 ggcacgagat cattttctgt cccctcctat cttaggctga ccggttccct gatgtgttac 60  
 ctgcttctgc tactgatcca aactgcagaa cttctcattc atccccaaagg cctccaggca 120  
 gtatccaatg gggaatcagc tctaaaagga accagacca cgttttccag ccccttcatt 180  
 ctggtgactg aggggaggaa agaattggag ggggtattct tgtctagtgg atggaaagga 240  
 aacacactgt caaattacta tatctccttg gttttctatt acagttagaat tctccagcca 300  
 tatttttatt gtctatgggg gaagtggag atgggtgacct tgattagaag tgtctggagg 360  
 gggataaatg gaggggataa gatttcagtt ggttttgga aatgttaaag tcttaaaata 420  
 atgcgtccca tctgaagaat tttttctaaa accagagttt ataaaaatat cactgatata 480  
 gcctgcccc tcatttccct gccacaggag atgtcttgg ctagagacac ttgtttaata 540  
 atagcttgct tctgatattc ccagttagct ccctctgtgt gaggaagga tagaaatgtt 600  
 caggacatca tcatcacagg tctcatcta caaagtcca gtagcagtga cgctacacg 660  
 gaagacttgg aactgcaaac aggtctgggt cacctcagt acatctgacg ctgtccaacc 720  
 agaagttcga tttttgttct gggggtgaag gaggaacag actgtactaa aggactaaaa 780  
 taatttgtct atactaaaaa aaaaaaaaaa aaa 813

<210> 16  
 <211> 264  
 <212> DNA  
 <213> Homo sapiens

<400> 16  
 gtttaatat tgtgcagtgg attattaagt atgacattct cttttcttct agagttttgt 60  
 tcagtggccc aaaggctaag attagcagat gctagaacat ctatgcagga tattttaaaa 120  
 tggtttagtg actatacctt gagggcagat ataagtaagt caagagattt atagggaaag 180  
 gatttctttg aagattgttg cagatgggcc aatgaagga agctctcaat agctatccaa 240  
 aacacctggc atgtttcttc tcga 264

<210> 17  
 <211> 520  
 <212> DNA  
 <213> Homo sapiens

<400> 17  
 gagaaggact ttatgcaggg aagtgcagca ggacacggag ggactcatat ttaccgagct 60

ttggtgcagt	ggccccctggc	ctgggtattc	tattttaagcc	atgcaaaaac	ccattggggga	120
gaagagttaa	ggtttttcct	ccgcaggaaa	aacttgaggc	tcagagagggc	tatgagacat	180
gagacatgcc	aggtcacaca	gctggtagct	ggcaaagctg	actccaacct	gtgtctgagg	240
gactctgaaa	cctgggttctg	gccccactc	tgggcagcct	gtcctctct	acaagccact	300
gcctgcagat	taagcagtc	tagcaaaggc	ctgggagcat	ccagagagtg	ccccgggctg	360
gcgagtggta	gagcagcct	ggtttccttc	ctttgaccct	caaggatcac	aggagtgtca	420
cccagaagta	acttaactta	tgagtgtttt	atgaacagga	aaagcaggaa	aaggggtaaa	480
gtcacatgat	ttcacaacca	aacagcctgt	aaactcgtgc			520

<210> 18  
 <211> 993  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (474)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (478)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (551)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (581)  
 <223> n equals a,t,g, or c

<400> 18	
ggcacgagga	acaaactagg gtagaaggcc tggggccggc agactgatca tgtgatgctt 60
agcctatcta	ctattctctc taatcctgct agtagtagat ctgccagtgt tccatcttag 120
ctgatgttac	tgggtgctagg ggagtgacct tttgtggctt tctagccatt agccccgtga 180
ggatagactg	gtttgtactg gtgcagtcctg tttaaaaaca tgcattcctc atggctcatc 240
agttttgtgt	gttaagtctc gccatgcagt ggtcttaatc ttgttttcaa cttgtagctc 300
tgccataacct	gtctctctaa ggagacctaa ctattgccta cttcccacct gcggccattc 360
atccaccagg	cccaagctta tgggtgttga acaatacagc tacttatttt tgacatgtgt 420
ctttatgtgt	gtgtcactcc agtggaagtc aacccaaccg tgggtaggag acantacntg 480
tatgaggaaa	gggatcacag gtacagaagt tcacagaact aatgcacttt tcacattttg 540
gtgctcataa	ngcatttccc cctatagata tgatttgaga nagaagacac tgaaagaatg 600
gaggaataga	caccaagtta atargggctc ctaactgatg aatttcactc ttaggatggc 660
tgagccagag	accaccattt cattcttttt gctgtgccct gcctgtttcg atgggtttcc 720
aggattccca	acgtgataag tgtgtcccag tgtgacgtta tttaatctat tctggcaatt 780
cagtgtcagt	atccgttttc ccttcaaata tttcaccaaa gtatttatgc cccactactg 840
tatttcattg	attgtaagat acacgctggg ttttattagc atttctgaag ttgaaatgcg 900
tggaacattg	gtgggtgtgtc ataatacttt aggatttggt acttagtggt acaccaaata 960
atggtaggtt	gatgggtgtt tagattgcct cga 993

<210> 19  
 <211> 459  
 <212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 19

ggcacgagga	agcgtgaacc	ccaggggaaca	gcggggtccct	tccctcctca	gacacaagcc	60
acctcagctt	gtggctcttg	gccccagcc	ccaccaaccc	acctgttcat	ttattcaaca	120
gacaatgaca	gctgatattt	attggacatt	tgcaccatgc	caagcattcg	gcttggatta	180
tcccatttgt	ttctcacagc	cggatatttat	tgtctgctcc	tctgtgccag	gtgctgtgct	240
ctgggcaggg	gcactgcatg	ggctgcctgc	cctgggtggag	cttgtgggtct	gatgggtgag	300
gctgacccaa	gcccacccca	ttgccaacag	ggccagggca	agagtacaca	caggggcctc	360
ataccatatg	tctaaatatt	taaaaagtta	tcaatcaagc	taacaactgt	taaataaaat	420
atgttctatt	ctcctacttt	gaaaaaaaaa	aaaaaaaaaa			459

&lt;210&gt; 20

&lt;211&gt; 555

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 20

agctccaccg	cggtggcgcc	cgctctagaa	cttagtggat	ccccccgnen	tgccaggaat	60
tccgccacga	gcaaggtcac	agagctagaa	aaaggcagaa	ttgggacctt	taccagaaat	120
ttctaactct	agctctgtaa	agctgggaca	ctggagaagc	agagggtttg	gtgtagtact	180
cctctgagct	cggggtctta	gaagtccaca	tggggctgct	ggagtgggtga	ggggagatgg	240
aggtgggaag	aaggggagaag	acccctattc	ccctattctc	tttcaatcag	agaggattcc	300
tgcacttatt	tacctgcctg	tgatctcatc	tgaagagaa	tctatgacct	cccaaaatct	360
gcgattcact	ctgttccagt	tctgttactc	tttatactct	gagctagaac	tgggcttcag	420
atcactgtca	caagagggtga	ccagagaaatg	gtgcttgagt	tacttctttt	taataaaaagt	480
ttgctggcaa	gttcctgtga	gtgagttcct	gcttgtaaaa	gagaacccat	tcttacttct	540
ggagaaaaaa	ctcga					555

&lt;210&gt; 21

&lt;211&gt; 665

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 21

ggcacgagaa	actccagtta	atgccattta	ttttgcttct	tgtttgctta	acctccctgc	60
cttctagggg	ttataatgag	aagaaactaa	cagacaatat	tcagtgtgag	atttttcaag	120
ttctttatga	agaagccaca	gcatactaca	aggaagaaat	cgtgcatcag	ctgcccagta	180
ataaaccaga	agagctagaa	aataatgtag	atcagatctt	gaaatggatt	gagcagtgga	240
tcaaagatca	taactcttga	cttataaggc	tagctactta	ataatcactc	ttgttgatat	300
ctctgccgac	atcatagaaa	ttgttcaagt	gtcagtaaca	ctttattaaa	atcatgttgc	360
agaaccagca	ggtggatagt	atataggttt	atgcctgtgt	ttcttttctc	catgagaaa	420
ctaaacatga	aataataatga	atatagtaat	tattaaggga	ttgagacaaa	aactgtgatt	480
ttaatactta	aattgctaaa	gaataaataa	atctgacaaa	atgggtggat	atcttttaag	540
tttattacag	aaaaaaatgc	agatgatctc	ttaaaataaa	actaaagata	aagcaaaaaa	600
aaaaaaaaaa	aaaactcgtg	gggggggcyc	cggtacccaa	tcgccctatg	agtgagtcgt	660

attac

665

<210> 22  
<211> 777  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (274)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (278)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (295)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (676)  
<223> n equals a,t,g, or c

<400> 22  
ggcagagctc aggtaagarg caaaattact agaataattca ctctcaactga aaatgagtaa 60  
aaacctaact tagatgaaaa tccttatctt gttcattttt attcctggcc ttttggttga 120  
gaagaatggg ccagaccatg tgtgtgtgtg tatgtgtgtg cgtgtgtgtg tgtgtgcgca 180  
cttgggttta tttatatgag ccggtaaaaat ttcgttcacc attaatattat gttaatattac 240  
caacttctta aatgagaaca gtgagaattt tctncatngt taataatata ctggncagtg 300  
catatatgca tcacgaagag aggattttcc cattgataat agatttccaa atacatcttc 360  
ctgctttaag attttaatat atggatttat atataaaaac tagttaagtc attggaaaaag 420  
caaaactgtca wccttctctt atttgagawc tcaacttttag aaagtctatg ttctcaacta 480  
cagaaaaataa ttttttagacc agctaacttt cagattttctg cagtgccttat tttctcccag 540  
ttgagggttg gtttttggtt gtttggttgt ttgtttgttt ttcttgatta aaaagtaaga 600  
atacggccag gcgcgatagc tcatgccttt aatcccagca ttttgggagg ccgaggaggg 660  
cagatcacct gaggtncagg agttcgagac cagcctggct aacatggtga aaccagttt 720  
ctactaaaaa aaaaaaaaaa aaacttcgag ggggggtccc ggtacctaata cgtccct 777

<210> 23  
<211> 540  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (341)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (378)  
<223> n equals a,t,g, or c



<220>  
 <221> SITE  
 <222> (425)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (450)  
 <223> n equals a,t,g, or c

<400> 23  
 gaggatcccc acaggggcccc tctgtagccc tggggagtcg gcagtgcctgg tctaggcccc 60  
 ttaggagagg gggcaggggg gcagcagtag aaatgtggcg gggcccgact tgggtgtttcc 120  
 ggccgtcttt gtgtcirtgt tgtgtatgtg gagtgtcatt cggctctttat gtccctcacg 180  
 gcttcagttc ctccatgtgt gtctctgccc caggctctgc ctggctgtcc cttgtgtatt 240  
 ccattctgtc agcccggtgg tccatgtcag amcggstttc ttctcgggam agcctgggtg 300  
 catctggggc atctgttttg ttggtttgct tctgggtgca ngcagaccca ggagtgggtg 360  
 tctctgttcc ccgagcanct gtctctggtc tctgggtgtg tgtgagtcca tctgcctgcc 420  
 tcganttggc cccaaccaag cccccccan cctctctttt ctctctctca atcttccctt 480  
 tctcttccaa cccctccaaa tgagatgggt gagtgcctg ggttggaggg aagcaatggt 540

<210> 24  
 <211> 484  
 <212> DNA  
 <213> Homo sapiens

<400> 24  
 ggcacgaggt ccgggggaccg agggatgtga gccctggcta caactccagg acaggaggga 60  
 gagaatgcaa ctacagcctgt cctctctgtc atttgtggta tgcactaacg ctgtctgcac 120  
 acatgcagct accaaccaag ccagactggg ggggttccta aaggctcctga ggcccgccca 180  
 cagccccctt tgccctctagg ttgttttccc tcccagttgc ccgctcttg tatttgttgc 240  
 tacttacaga atcttttagga ccaaagggct gaggctgggg ccaagaatct ggtgagcaac 300  
 aagtcactgg ctctgcccc tccacttttg acagggtgta cccgggggtg ggagacggtg 360  
 atcctagacc cgctgtcacc tgtggggctg ttcagtgtca tgagggtaaa gaacgagttg 420  
 gtcccactgc tcatagttaa tccctgccac ttggcacagg gcatagcaca aagcaagccc 480  
 tcga 484

<210> 25  
 <211> 707  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (562)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (570)  
 <223> n equals a,t,g, or c

<400> 25  
 gggtcgaccc acgcgtccgc ccacgcgtcc ggtttctaca acccttagga acatcagaat 60  
 catgtgtgtg tgggtgctta ttaaataaam sagttcctgg agctcactcc cagtgactgc 120

cagtctgatg	attaggggct	cagctaggac	ctaggtttgc	gaaagctccc	agctgatctc	180
atgcagccag	cctggctctg	gctctgggkc	tgggagctgg	gttgggaact	agtctttggg	240
gctattctgc	tgawacttca	agatgggctc	tttgactccg	tcttgattg	tcakcacttg	300
tattcaggte	tgtttctccc	ctggattgta	aactccttga	tgtctggggtc	atctcagctc	360
atgagctgag	cttwcagtgg	gtgctcagtg	gaacagatgc	tgaatggagt	caggctgtag	420
ggaggccagc	gtgtgttggg	aagtgaagaga	caaaaatcat	tttaaaaaga	atctttttgc	480
ccttcagttg	tgtttgccat	gagttaatgt	gatttactct	agtgggaagcc	agtgcagctt	540
aagtggaggt	cttgccctga	antggagccn	ggttatggat	cagcagagct	gccaaaagcg	600
ttttggggga	aatgtttctg	tgtcaccctc	agttgattga	actcaagttt	tcactcccg	660
ttaacaccac	gtggggggcca	ttctgacttc	tgcggagtgg	gtatgat		707

&lt;210&gt; 26

&lt;211&gt; 793

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 26

ggcacgagta	ccattttattg	agctctagac	atatactagg	cagtgtgcta	agacttgatg	60
tgtgcatgag	ctcacctaaa	agtctgggtc	tactatttagc	tgtaatctgt	aggggaagcta	120
cataacttcc	tcaagctatg	twttttctaac	tcaaagacag	gtaccttaaa	gatcatctgc	180
tgctgectct	cctttgaccc	actaacagag	actacagggt	attaagcaat	ataaaaacaag	240
ggttattaac	agactctgtt	tttwgctgca	tccccytcaa	cacccccgag	ctccacaaat	300
cttaaaagtca	aatgctctta	gcctacttta	ttttgggtaca	cacctcagaa	acgaacagaa	360
ctgtcaaaca	cctgtgaagg	caaagatcag	ctctgttctg	ctctacacgg	cctctgcagc	420
agctagcagt	acttagctct	cagtagcacc	cactccaaca	gcaagttgtt	tagctgttcc	480
ttatacacac	gcacacacat	acgcacactc	acacacacac	agactctgaa	gcttccttgg	540
cctctccatc	taactaccac	catecttacc	tcttgctgca	aaaactccta	actgggcttc	600
ccacttcaat	actttctcaa	ctcaaaaage	caagtgttct	ttttaaacct	taaatcagaa	660
cacgccactc	ttctgcttca	gattccccaa	ggatttctac	gcacttcata	tctaaactac	720
ttacgatgac	ccaaggccct	actagatttg	gcctgcttac	tttccagcgg	cacgagagag	780
aactagtcct	gta					793

&lt;210&gt; 27

&lt;211&gt; 638

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 27

gataagaaat	tattttaaat	tctttatgaa	tattgttctt	caatttagcg	ttcttctctca	60
ttttgcctat	ttctctttta	ttatcctata	ttgggctgtt	ttgttcagcc	aaacaatttg	120
tagcatgtct	gttttcaaag	taaaatagtg	atataatttaa	agttctaaat	gtgttctttta	180
tgtattttta	aaggagatgg	gtaaaataga	atgtatttct	ctttaccctg	atgacattcc	240
cgtgatatat	ttcaaataat	attttttgatt	gggtaagcca	gtaggaccaa	atccatgggtg	300
atcacagata	cagattcaca	aatgcataga	gagaatcata	aatagatgca	tatggaggag	360
tctgacagta	tagtgaaaatt	ggtttcaagt	aatttgacac	attagaactt	tcaggcattc	420
acctgccagt	aatccttatt	agaaaatagga	ttggaatatt	ggggtcacca	gctcaagacc	480
atttttttgt	gagagctgaa	caataaccaa	aagtcagagc	tataggaata	aaaatgaacc	540
tattccagtc	attagaactg	tttctctgaa	taagctcttt	cttctctctc	ttcataaaaa	600
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aactcgaa			638

&lt;210&gt; 28

&lt;211&gt; 528

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<220>  
<221> SITE  
<222> (421)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (436)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (459)  
<223> n equals a,t,g, or c

<400> 28  
cttaaaaaat aaatactatc tttctctctg gcctctccat cctccagaca atcactgaat 60  
tacaatattt gcttaacagt agattaatgt caattttctg gaattttata tgactgatat 120  
aacatgtttc ctcttttcat acctgagtag tctcctgagc cctattttatt tagatgttct 180  
tcttttttct ttattattat ttttatttca catagcaggg atgcatattt tgacattcat 240  
caatcatgat atatgagtag ttcattcttt ttatcttaga atatgacatg ctatggaaat 300  
cactgtatac gaattcatct gcttatggat atgttattgc ttcttatttt tgtctgttag 360  
gaataaaact gcttggttaag caaaaaaaaa raaaaaaaaa aactcgaggg ggggcccga 420  
ncccaattcg ccctanagtg gagtcgtatt acaaatcant ggccgctcgt ttacaacgct 480  
gtggactggg gaaaaacctg ggcggttaac cccaacttta aatcggcc 528

<210> 29  
<211> 919  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (380)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (432)  
<223> n equals a,t,g, or c

<400> 29  
gatcgttttt gccattgcag tgaccaacag gactgtggac ctacagtaaag gctttcccta 60  
catcagcatc tgcrgatect tccccctca ragctgcac ttcagccagg tgctcaatat 120  
gggagctgct ctggccgcgt ggatctgcat tgtccgttac caccagctcc gggactgggg 180  
cgtcagaagg tggcctaacc agctgatect atggacgggt cttctgtgtg ccttgggcac 240  
ytccgtggta ggcaatttac caggtgagac ccagtcggcg cccagggctt gtwmccggcc 300  
ggcstytgga aytacaactc ccagcatgcc ccgtggccat aggcctwawg tctcgggggc 360  
tggttcccg cgcgcccttn tgggacttgt atttttctct ggccattggc ctggaccggc 420  
tggatccttt gntctctgag tggggcatta cgagcgaggc tgtttgatg taggattcgt 480  
tgattccagg acgttgggat aattttctgc cagccctct cccagctta tttaatgatg 540  
aaattactgg tccaggcgca gtggctcatg cctgtaattc cagcactttg ggaggcggag 600  
gcaggcggat cgcttgagg gaggagtttg agaccagcct ggccaaccaa catgggtgaaa 660  
ccccgtctct cctaaaatat gcaaaaaatta gccgggcatg gtggcaggcg acttaatccc 720  
agctacgttg gaggcagagg cgggagaatc atttgaacct gggaggtgga ggttgacgtg 780  
agccgagatc gagccattgc actcaaacct gggggataag agtgagactt ctctcaaaaa 840  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa actcgtaggg ggggkyccgg taccacaacgc 900

gccctatagt ggatgcgtg

919

&lt;210&gt; 30

&lt;211&gt; 864

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 30

gctcgtgccg	caacatacta	catttatatt	aaagtgtatt	tggataataa	ttgccttcc	60
tgtattttgtg	attgtttgct	tttaagatttt	aatatagaca	attaatagaa	ttgcttatgc	120
acattttcat	aaatgggttg	ttgggttttg	tttattttgt	tataccttgc	cttgacacatt	180
tgtgtccaaa	attacattta	ctcatataaa	atcatttgcc	tgcagtcctt	tcattatata	240
gtccgtaaaa	tacagatatt	tgtctcttaa	tgaaatataa	cattcctcta	tcattagatt	300
agattaaatg	agtgtatctt	ckgtaattta	taagttaawt	ggatttaaca	ttttgttgac	360
aaaacaccta	ggcaccagca	gttttgtgta	gcccatagtt	ttagtttgaa	gtagctagaa	420
tcctctagtg	tacagtttga	cgagtttcat	ctcacctatt	taggcttttt	gggtggttga	480
tacttgacat	caaaaaggaaa	gcaccttttt	tcttgagtga	cttcaaggat	gcattaagcc	540
tgcagtgcct	ggcctcgatt	cttttccctat	actgtgcctg	tatgtctcct	gtaatcactt	600
ttggagggtc	gcttgaggaa	gctacagaag	gcagaatagt	gagtacaaag	attggttagtg	660
gccaggcttt	tagctcttca	gaggcaagtg	tctgtatgca	tttgtctcac	tattcatact	720
tttatattgaa	gagtctaccc	acagcatgat	taacgtgacc	caaagcagac	ttccccaaa	780
ggtaattgct	gtggaaaaca	tggggaagcc	atttgaacag	aagatgcaca	gttgaggtaa	840
aaaaaaaaaa	aaaaaaactc	gwag				864

&lt;210&gt; 31

&lt;211&gt; 919

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 31

ggcacgagtg	atgctgctgg	ctgccttcc	cgccctgttt	cctctccatg	actccagggg	60
tttgaagcac	acaggagctg	gacatgtcaa	ttctgtagct	cttctcccaa	taccactgaa	120
ggccgtgagc	ctctctcctg	tttccagcct	gcagggtgcc	tgttgctgct	cttcattcca	180
gcttctcctc	acttttctct	cagtctcttg	agcttgggaag	ccttactgta	gcttgtgtct	240
cctccctggg	cacttgaggt	caggcttttg	cctttttgtc	acattgagcc	acatgccttt	300
gatacacagt	tgtagcaaag	aagggaggtg	atgaacttgg	ctcactttct	tttctgatcc	360
ccctccctac	tcctcctgca	ctccccaccg	aaccccgagat	atcttatagt	cctaaggcct	420
gtagaggatt	aaggaaaagga	attggagatg	ggttttactt	agttcacaga	aaagctttct	480
ttgggatttt	tcctccccct	tagggctttt	taagtctagg	tgaagtgaag	gttcacacat	540
gtgtttgttt	ggttgctctg	taattagcta	ctagttttta	tccctagacc	ttctctgctc	600
cagtgtcttg	ttcatgtgtc	ctgaccccg	gtccttgaat	tcccactttg	ctttgggatt	660
taagttattg	tatgttgctc	acaatatatta	aagatgaaaa	agtcttgaag	gaaacttacc	720
agggttcttt	ctttggcttt	tttttttttt	tctttcgagg	tactgtaaat	tgtaacttag	780
ggatgccaa	caggcttggt	tcaatggcta	aacctcttat	tgtattacag	tgtaatgctg	840
atctcagcct	ggtctcaatg	ccagagcaca	cagagacttg	aataaaaactg	ttataacgat	900
taaaaaaaaa	aaaaaaaaaa					919

&lt;210&gt; 32

&lt;211&gt; 956

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 32

ggcattttca	gtcaaaaaata	tggctgccgt	tttaaggtgtg	agctttttgc	ctttttacct	60
agaaaaacaa	tgatatgtaa	atttcttatt	ataatttgta	ttactctact	cttattttgct	120

atttgtcaac	tctgcaagag	acaaggggtg	gtacagaaaa	tatcatttta	tcagaaggaa	180
accttgtctt	ctacagtagg	tactaccttc	ttgagctgat	tctggataat	aaagcttgct	240
tcgcaataat	ccagagtttt	ccaaaccata	tatttgactc	cctttactga	ctgatatgca	300
aagtttgtgt	taactatatg	gaaaattgtg	aatccctttc	ttccaagtct	acacactcca	360
cttgcttttc	ccttctacct	tgaattcatg	tgcattcccc	cagttttctg	cctttgtaat	420
ggaggttca	gttcttctgc	agccacagtt	gcaggaaacc	caattgtaat	cagcagctgc	480
cctgctgsta	aaagctatta	gtgccmatgt	tgttaatgac	cgacccagtt	gaatgtgctg	540
atttaagggg	tagacttatt	tcttgctact	ccctagggcc	ttgttcttaa	atgagatttc	600
tacgttggtt	agttgtttac	tcctctagca	taaggagtat	taaccactaa	ccaccacatt	660
cgtatatcag	cacgttgaat	tgaaataatg	gggagggttaa	gacatatcac	tacctttgag	720
gtatgaagac	acgcgccttg	aaaaaacttg	gctctcacc	ctaatttttg	cctaaagaag	780
ttggatacca	ctgcaatttg	ctctgaagtt	atacatgtta	ttgtcttcaa	gggactatag	840
gatgagaagg	gtacagttag	gtttcttttc	agaactaaac	acattagcag	taacctgcaa	900
aatcaatac	caattacttg	caagcaaggg	cttaaaaaaa	aaaaaaaaaa	actcga	956

&lt;210&gt; 33

&lt;211&gt; 566

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (400)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 33

gggttctctga	gctgactagg	taggtagtga	gcgtgtgtgt	gctggagaca	ggccagctgg	60
ggcctgcagc	gctctgtcgc	tctgtgatgt	tgacatgggt	gtggtactta	attatgacct	120
cagtgttca	agcctcggtt	tcctcggttg	tgagagggag	catattggtg	ggagggagtg	180
aggactgtrg	ggaggggggc	tcgttgatac	aggtcagtct	tggctatgtg	ttggctgcaa	240
gggaggacag	gcaggagtgt	ggaccggaca	ccgtcagttg	tccaccaggg	atgaggctgg	300
actgagactg	ctgcagcccc	gctgggttgg	tgggggtggg	cagargcagg	gggccgggtga	360
ggcagcctca	ggaagctgct	gccccgaac	tccccgggan	gttccccaat	ccctctccct	420
ctttgttcac	tggccgggcc	tccgtgtgga	aagggctatt	tttagccctc	gctttttttg	480
gttaatgggc	ttttcgcggc	ttctctcttt	gaaggggcta	wttcaggagc	agacatcart	540
gtctgcattt	ggactccttg	gctcga				566

&lt;210&gt; 34

&lt;211&gt; 1564

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (796)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 34

gaattcggca	cgagattttc	ctaaccattg	aaagcttttg	cccaagtgca	cctcgtgggtg	60
aggatgatga	taatttatta	aggacttctc	gcgtgccaga	catcatgcta	agtgtctttg	120
ctgcattata	tttaatcatc	acaatatcc	taaagggtag	ttgctgtagt	tgtcatcatt	180
gctttacaaa	tgggaaactg	tggcttagaa	agttcatcag	tggttcccaa	ccctagctgc	240
ccatatttag	agtcacttgg	gaacctttaa	aacttctcga	tggcgaaacta	caccccgacc	300
cagttaaatc	acagtctctg	aggtgggttc	caggcatcgg	cttttttttc	agttcctcat	360
gtgcggccaa	gtttgagaac	cagaggtcac	acaggtgcya	agtgyagagc	tgaccttcca	420
accaggaag	gcgggtgcca	aagtcacagc	tggcaaaagt	caccatcagg	ttattcactg	480

ggaatttgaa	attatgctgt	caagctactc	tacagatgta	cccccttggt	ttctcaagtt	540
cttttcacgc	aacttgccac	agacttattt	tcttcattca	ggagtaaaga	aatggggctc	600
ctgcttctca	ttaccttgga	gggattctcc	cccactcacg	tttatatctc	ttttaagctc	660
tcatttgacg	acgttttact	tatatcactt	gcaccatggc	atcatctgcc	taggggtttc	720
tgtttatttt	cacagagcat	acacatcact	gtgtattcta	gaaacagctg	taggctcgta	780
ttaacaaagt	gataanaatc	tggggctwtg	aagacatgta	ggatattagc	taactgaact	840
gtgctatgag	attgtttccc	tttcttcttg	gcaaaccatt	tcagagcagc	ctgggtgtga	900
gactgtgtta	ctgaaatggg	gccataggag	cctccagact	ccttttctcc	tgccagaggg	960
tgattaggta	gatcccatag	tgcagaactc	catgtcacca	ccacatacgt	gtatggcaca	1020
cgtgggccaa	tggaaagggg	ccaggagttc	ttactttcta	actgggtcatg	tgtaagggaag	1080
agagcacctt	cctcccttaa	caccaagggg	ttcaatagag	accactgagc	tgctacatta	1140
aatgaaagat	gcatttttct	gtgccctggg	atgctgcccc	ttattcaccc	gtgtttagtt	1200
ttatcttctg	tgtaaaagat	actcgagttt	aaatggctta	aaaatgaagc	aaggggctgg	1260
gcacgggtgct	cacgcctgta	atcccagcac	tttggggaaga	tgaggcgggt	ggatcacctg	1320
aggtcgggag	ttcaagacca	gcctggccaa	catggcgaaa	ccccatctct	actaaaaata	1380
caaaaattct	ctatgaatgg	tggcacatgc	ctgtagtctc	aaataactaga	gaggctgaag	1440
caggagaatt	gcttgaacct	gggaggtgaa	ggttgcagtg	agccgagatc	atgctactgc	1500
actccagcct	gggcaacaga	gtgagactct	gtctcaaaaa	aaaaaaaaaa	aaaaaaaaac	1560
tcga						1564

&lt;210&gt; 35

&lt;211&gt; 1035

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (522)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 35

gcagttttcc	agcaccattc	gttgaagaga	ctgttctttc	cctgttgaac	gatcttggca	60
gccttgtcta	aaaaagatta	accataaatg	cgaggggttc	cctctggact	ctcaagtctg	120
ttccactgat	gtgtatgact	gtctttattg	ttttctatta	ttcttttatg	agattgttat	180
tcagggtgcag	ccacaatagg	agacactgga	gaggctcagg	aaaaaacaca	gtttatcaca	240
caggtcctag	agacgaggca	tgctgtgcca	tgccatgctg	ggccacttgg	ggaagacgct	300
agggtgggtta	ggaggaggga	argattaggc	tactgccttc	atcgagggtt	ccttagggta	360
gggcagggcg	aacagtttag	tttgaataat	tttggcatac	tttagactgg	cgggggtggc	420
tcgttgcttg	gcacctggct	ctgggatgat	aggtagagga	gtagtgcctc	ttgggggtata	480
agggccagat	agaggagata	tggctctgga	ttttgaatag	cntgscatat	taaagacata	540
ctcctagctg	ggcccyttgt	tatctttaag	aattggctag	accttggagg	gacagtttct	600
caaatagcta	gaaaggttct	ttaacatggt	aaacatcagt	atacaagaaa	agctaaaagt	660
ccatctgtgc	cagtgccata	ctgtctkgct	tactgtagca	gtgtggtaag	ttttgaaatt	720
aggaagtgtg	agccggggcg	ggtgggtcac	gcctgtaatc	ccagcacttt	gggagggtga	780
ggtgggtgga	tcacgagggtc	aagagatcaa	gaccatcctg	gccaacatgg	tgaaacccca	840
tctctactaa	aaatacaaaa	attagctggc	gtggtggcag	gcactctacac	tcccagctgc	900
tcgggaggct	gaggtcagga	gaatcacttg	aaccaggag	gcggagtttg	cagtgagtcc	960
gagattgagc	cactacactc	cagcgtggcg	acagagcgag	atccgtctca	aaaaaaaaaa	1020
aaaaaaaaac	tcgta					1035

&lt;210&gt; 36

&lt;211&gt; 620

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 36

acgcaggrgg	ccaagggggc	tcttccaggc	tctgggcacc	tccagctgag	gggatgtggg	60
ctgagaggag	atgagtggct	gcaagtggag	gaagaacatt	acctacttca	gatttttatgc	120
ctcttgctct	gaaacgaggt	cagcttttcc	ttatcccttg	gcttttcccc	cagggagttt	180
gcccgttgga	aggtgaacaa	cttggctctg	gaaaggaagg	acttcttcag	tttgccattg	240
cctcttgccc	cagagtttat	ccggaacatt	cgcctccttg	gaaggagacc	caatctgcaa	300
caggttacag	aaaatctgat	taaaaagtac	ggcactcatt	tcttactttc	tgccaccctt	360
ggaggttaagc	aacatcacaa	tcccaagcta	attggttgce	agaccattgg	aaataacggt	420
aagactcgtg	tagcgtagct	ccaacagtct	tatcttcttc	cgggcctttt	attgcctgag	480
aagtctttct	ggtgcatttg	aaaacagtgc	agtctcttca	catctcaatt	taccccagaa	540
catctctatt	taattattcc	ctgaggaggg	gaagttgggt	atggcggttg	gaggtggaca	600
ggctcctaaa	aaaaactcga					620

&lt;210&gt; 37

&lt;211&gt; 973

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 37

ggggactcag	tcacacagaa	aatagaagaa	tgtgtgtaca	gttgggaaggt	ctcagagaaa	60
aggagtctgt	tggacagaat	gaccagtctg	tgactactgc	catttttcat	gaccatatat	120
caaccacat	tacagatgta	acttagtgag	agaaaacatc	tccctgtttt	ccttcataata	180
ttatgaaata	tttacttttt	ctagtatttt	gtctatctta	cgtcaaagat	ttaaataatct	240
ttgacctct	gtactaaata	ccacgccaca	tcagttttag	ttgcctttct	tttttcctta	300
ggctagtttt	ttgggtatacc	atttctaaac	caatggtagg	aacattttta	ggcatctttt	360
gtctggaata	wgttttagca	tgtmcagcat	gaaagtttta	tatgtttatt	aatttttgtt	420
tataattgtt	aatgaatatt	aattttgtta	atgaatatat	attaaaccaa	ttaataaaca	480
gtcacaagc	tgcaaacck	tttaataatt	attaaagtct	taatttttta	atggattttg	540
gtcatctaag	ttccgaaatg	aaatacacca	aacttggtct	tactttgcca	aattgtccta	600
ctgtttctca	gaatcaacat	tttttagacat	tatgtagaaa	cactctttaa	cctagttgts	660
tcaggcttag	tagagaaagg	aaaagaaaga	aagttggagc	tggaagagga	aagttggtaa	720
atgtgggtcag	tagtgcattt	tgtgtgacca	ggcaagtctt	gcagaacctc	ttctgaacac	780
cttcacctgt	gtaaaatccc	aggcattagt	taatctccaa	ccactatggc	aggatatgca	840
tctgagagca	aagaggcaaa	tggcaagcag	agatcacaaa	ggtgcaagag	ctagagtagt	900
gatagaacca	gtgccaggac	gatctaaatt	cccttgcat	gtcaatac	aaaaaaaaa	960
aaaaaaaaact	cga					973

&lt;210&gt; 38

&lt;211&gt; 838

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 38

cccacgcgtc	cgcctctccc	tcactctctg	ttctgctttc	atctcttgga	gtttcactag	60
atatctcata	taagtggaa	cataaggtat	ttgtcttttt	gtgatgggt	tatttcattt	120
agcataatgt	cctcaaggtt	cattcatggt	gttgcattga	atagaatttc	ctttcttttt	180
aaggggtgaat	aatattttcat	tttgtgtgtt	gagaggtagg	accttataaa	tgattatgtc	240
atgaggggtc	tgccctcgtg	aatgaattaa	tgacattacc	atgggagtg	gttccctgata	300
aaagaatttg	gtccctttct	ctcactcttg	tgcatgctct	cttgccctta	tgtcttttgc	360
catgggatgt	tggagcaaga	agtcccttca	tcagtgggtga	gcccatcaac	cttggatttt	420
ccaacctcca	gaactgtaaa	taaattttct	tttaatttac	ccagtctttg	gtattctggt	480
atagcaacac	aaaatggact	aaaacagaag	attagagaga	cttccctctt	tgtacagttt	540
tctcaaatgc	caaggtggca	taaattggaa	tagtgtgtcc	tgaatctcat	tagagattcc	600
tcatgggtgc	tctatgctat	gccatgtagg	gagagagggg	cacaaacagg	tgtgcgacat	660
gccacaagtt	ttctctctcc	tttcacagga	atactgtctt	ggttacaatg	gcctaggtgc	720
tattgcttca	cagctagtct	ctatagtttt	gttttttaag	agatgaggtt	tactccagc	780
ctggggggaca	agagtcgaga	ttcgtctcaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	838

<210> 39  
<211> 607  
<212> DNA  
<213> Homo sapiens

<400> 39  
tcgacccacg cgctccgccc cgcgtccgct tctgcaagca caatggtagc aagaacgtct 60  
tcagcacctt ccgaacccct gcagtgcgtg tcacgggcat tgtagctttg tacatagcct 120  
caggcctcac tggcttcata ggtcttgagg ttgtagccca gttgttcaac tgtatgggtg 180  
gactactgtt aatagcactc ctacactggg gctacatcag gtattctggt caatatcgtg 240  
agctgggagg agctattgat ttgggtgccg catatgtgtt ggagcaggct tcttctcata 300  
tcggtaattc cactcaggcc actgtgagg atgcagtgtt tggaagacca tccatggata 360  
aaaaagctca atagcatctt aacgtgaaga tcaaaacaaga acacaacaag cccctactga 420  
tttctgggtt tctgccacgg ccacagggtt atatccagag gaatggcaga tctgagacga 480  
tccaggaaga gctaaaacat ggccctgtaa taaatgagca gacctctctt gtgggtttcaa 540  
attattaaac acacttccat ttctcttgga aaaaaaaaaa aaaaaaaaaa aaaaaaaggg 600  
cggccgc 607

<210> 40  
<211> 882  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (198)  
<223> n equals a,t,g, or c

<400> 40  
gggcatarg gtgctgtcct tgggggtgctg tgtatatggg atgatgacgc ttatcagcat 60  
tatctagctc tttccacccc gaaattcgcc ccgattaaag actgtgttgc attatcagcc 120  
tgccgaccat gcccgcgggc gtgcccattg ccacctacct gaaaatgttc gcagccagtc 180  
tcttgcccat gtgcgcangg gcagaagtgg tgcacaggta ctaccgaccg gacctgatga 240  
gaaacagggt gagaaagagt aagttgattt ctcaaagtca catagcttta gtgagacgat 300  
ttgaggatct gaagcccaag ctttctgttt gcmaaactgg gatcacaagt ctttcggtcg 360  
gagaactgga agtctgggca ggtcgcagca gaggagacct gatgactgcc tagacttgtg 420  
ctcagtgcgt tgttggggag aactgctacg acatacctga aattccacca aagcgtggag 480  
aactcaaaac ggagcttttt ggactgaaag aaagaaaaca caaacctcaa gtttctcaac 540  
aggaggaact taaataacta tgccaagaat tctgtgaata atataagctt taaatatgta 600  
tttcttaatt tattgcatca aactacttgt ccttaagcac ttagtctaata gctaactgca 660  
agaggagggt ctcagtggat gtttagccga tacgttgaaa ttaattacg gtttgattga 720  
tatttcttga aaaccgcaa agcacatata atcaaaccat ttcataaata tgggttgga 780  
gatgtttagt cttgaatata atgcgaaata gaatatattg aagtctacta tatgggttgt 840  
ctttatttca tataaattaa gaaattattt aaaaaaaaaa aa 882

<210> 41  
<211> 959  
<212> DNA  
<213> Homo sapiens

<400> 41  
ccacgcgtcc ggtattttct aaaacaataa atttatagt ttaatatcca taggggtcaat 60  
caaaatgaag cttctccttt gggcctgcat tgtatgtgtt gcttttgcaa ggaagagacg 120  
gttccccttc attggtgagg atgacaatga cgatgggtcac ccacttcac catctctgaa 180



tattccttat	ggcatacggg	atataccacc	tcctctttat	tatcgcccag	tgaatacagt	240
ccccagttac	cctgggaata	cttacctga	cacagggtta	ccttcgtatc	cctggattct	300
aactttctct	ggattcccc	atgtctatca	catccgtggt	tttcccttag	ctactcagtt	360
gaatgttctt	cctctccctc	ctaggggttt	cccgtttgtc	cctccttcaa	ggtttttttc	420
agcagctgca	gcacccgctg	ccccacctat	tgcagctgag	cctgctgcag	ctgcacctct	480
tacagccaca	cctgtagcag	ctgagcctgc	tgcaaggggc	cctggtgcag	ctgagcctgs	540
tggcagaggg	cacctgttgg	agcttgagcc	tgctgcagag	gcacctgttg	cagctgagcc	600
tgctgcagag	gcacctgttg	gagtggagcc	agctgcagag	gaaccttcac	cagctgagcc	660
tgctacagcc	aagcctgctg	ccccagaacc	tcacctttct	ccctctcttg	aacaggcaaa	720
tcagtgaat	tctctagaag	agtaccatgg	gttcatttct	atactgatgc	agaaataagt	780
gaaatctaca	aaagttttct	ttcttttcca	aagactatct	cattctgttg	tattcagagt	840
attcatctca	ctacattgat	ttgtttgtgg	tagtttttcc	ttggacttaa	tttatattga	900
aaaaacattg	ataattaaat	aaataaaaata	gataatttag	acaaaaaaa	aaaaaaaaa	959

&lt;210&gt; 42

&lt;211&gt; 875

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 42

ggcagcagtg	ccagtgtccc	gtgccctcca	gtgtcaaaga	tttggggcac	tgcccgtcga	60
aatggaaagg	ttggtgtctc	gcctctggag	cctcacctgc	agggcgtccc	cagctaacac	120
ccatccacgc	accacctcca	ggacgagaac	ccttgatgtc	aaaaccaagt	gcccagtgga	180
ggcgggtgaag	ctctcggaaa	tgctgccacc	tggttgaggc	cgggtctgaa	ctcgagggag	240
tcggagctca	gctgtcgggt	ttaaagagaca	ctgaggggac	cgggctgccg	ccctcagcct	300
gcattcctgt	gcgcaatcga	ttccgcaatg	acagcacctt	actccttctt	gcggcaggct	360
cacctctgcc	tggtgggatgt	tgtagagagga	acatgagcca	gacaaagact	tggtcagggg	420
ctcctgtggaa	caagccagga	tgacaggggg	gctgggggag	ccccascct	ggggcagccc	480
agcagggcgc	tgaacaaaca	ccccagaagc	cagcactgtg	gcaggggtgct	ggggagatgc	540
ccctctgagc	cttctctccc	cctcagacct	gaatgcaccc	cacagttggg	ggctgcccct	600
gcccactccc	ctggtaaatgc	ataaaagggg	aggggaaggt	tccttggggc	ttgagctccc	660
tctgtggagg	tgaggagggg	agattccgtt	cacatcccag	gaggggcaaa	atgactgatg	720
tattttttatg	tatctacaca	gagagtgcac	tttctctcca	gagatgctgt	ctgggttaaca	780
aaggaataac	ttaagaaatt	gattgattat	cttaataaac	tgtgcaaacc	caamrrraaa	840
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaact	cgtag			875

&lt;210&gt; 43

&lt;211&gt; 630

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; n equals a,t,g, or c

<400> 43  
 ccctccctta aggggaccaa agctgnagnt ccaccgcggt ggcgggccgct tagaantagt 60  
 ggacccccgg gctgcggaat cggcacgaga aacactgagt tcagctgccc tgtctagata 120  
 ttctggatta ctacagcagc cttctagcct atgggttgaa cccatctgat acttttccca 180  
 ttcttgctta gaacaatggg gatattttctc tgcttaaaat cctcttggtg ctcttttttg 240  
 cccattaata aaattcaaac tccatttatc cttaatctca tatacaaaaac cttcaagatg 300  
 tgctccttac ctaactctct tttttccctt ttatctttca tatttttcat ttttttctt 360  
 acctaaccct gtagccttat ctctcttctt ggatgatctt ttgttctacc aatacccagc 420  
 ttctggaatg ctagtgtttg tttactcagt cctccatttc ctcttctctg aattctagcc 480  
 tctcttctct cccctaattc agtatactcc tactggctct tcagaactca gtttaggtta 540  
 taattctcca aaaaattaca attaggttct ctctctggat cccatccctc aaaaaaaaaa 600  
 aaaaaaaact cgaggggggg gccggtaacc 630

<210> 44  
 <211> 571  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (460)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (494)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (562)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (566)  
 <223> n equals a,t,g, or c

<400> 44  
 gcaacatcgt ccttactcct gcatttttct gacgggcatg ctcccacgca gcttgcgcaa 60  
 caccaagcgg gcggtcaaac tctcggctca attgttataa gatcacataa caaaactttc 120  
 atcctggagc tctctcatgc gccgtttgct gctcgtttg ccgtttgccc tgctgccact 180  
 ggctgtcgct catgctcacg aagaccatga ccacgagcac ggcagcctcg gcgcccata 240  
 acatggcgctc gggcgccctga atgccgtgct ggacggccag gccctggagc tggaactgga 300  
 cagccccggc atgaacctgg tgggtttcga gcatgtagcc accagcgccg ccgacaaagc 360  
 caaggtcgcc gccgtgcgca aacagctgga aaatccatcg ggccctgttc aacctgcccc 420  
 aagccgcagt tgtgtggtca gcaaccaagg aatcaacagn cgttggtcgt gacaaaccgg 480  
 aagccgagca tgangacgat gaccaagcct ccgacgggaa aaggcgggcg cggcccacaa 540  
 agcatgatca agacaaaaat gnaatncacg c 571

<210> 45  
 <211> 930  
 <212> DNA  
 <213> Homo sapiens

<400> 45

ggacaaaatt	gacccatttt	caaataatgt	ttataaccag	gggctgttac	tgttttgttt	60
tttttttcct	agctcacaat	tgtaaagcag	cgagaacaac	cagaaatggg	tttccgacag	120
ttcctggtag	aagacaaagg	actttacgga	ggctcttctt	atgtgggatt	cctttgttgt	180
gttcacaagg	agatctgtca	gctgcttaat	taattgaaac	ttctctgtca	ttgatgttgc	240
atttccaagg	agataatctc	cttcttggtg	cctaattttc	tagatgataa	taggctagtt	300
ttgatttctt	gctcattttc	agaataactt	tccaggaaga	gatggcattt	agaacttcag	360
ctttggtgct	caggtataaa	gccaattaag	gtacaattgt	accataaagg	gaacaatctg	420
tttctgattg	cacagtttct	aattttttaa	actgatgtgg	tttgcatttc	ataaaaggca	480
aagtttacag	aaccataaac	attctcaatt	ttctttatgc	tagacatata	aattattttt	540
caaaactgtat	agatttgggg	taaaaagttg	tctcagttcc	tctcccaatt	gcaatgagaa	600
aaaaaagctt	aattttttaca	ttatacttaa	ttttctaaaa	ccatgtaact	ccattgaaca	660
cattttttcaa	cttaagggtc	gcatagcaga	cttttaataa	ccttgggatt	tatctggtag	720
aacaatatgt	gttctacatt	tttttcataa	ttatatattg	tgatgttaa	aactattttc	780
cagttgtttt	gtctgtaaaa	ctgtctttat	caatatgctt	aatgggtctt	tgtacaattt	840
tgaaagtttc	tacctgtata	taatggatgt	taaccagtat	caataaatca	ttcgtataat	900
cttaaaaaaa	aaaaaaaaaa	aaactcgtag				930

<210> 46  
 <211> 437  
 <212> DNA  
 <213> Homo sapiens

<400> 46	
gcttccggac	gccaacatcc
tgacgaaatt	agcgcagtgg
tgaccacggg	agccttgggc
tgcccgccta	cttgctgggtg
tggccacttt	tcatgactgc
cccagagccga	cttagccgcg
gacagccctt	cctcccattt
aaaaaaaaaa	aaaaaaa

<210> 47  
 <211> 1024  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (5)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (14)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (32)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (713)  
 <223> n equals a,t,g, or c

&lt;400&gt; 47

gtggntcccc	cggnntggcca	ggattcggca	cngggcgctg	gccgccttcc	agctgctcaa	60
cctgactggg	caacgtgggg	ctcttctctg	gctcggatcc	cagcatccgt	ggcgtgatgc	120
tggccggccg	cggtctgggc	cagggctggg	cttactgcta	ccaatgccaa	agccaggtgc	180
cgccacgcag	cggaacttgc	tctgcctgcc	gcgtctgcat	cctgcgtcgg	gaccaccact	240
gccgmetgct	gggcccgtgc	gtgggcttcg	gcaactaccg	gcccttctctg	tgcttctctg	300
ttcatgccgc	cggcgtcctg	ctccacgtct	ctgtgctgct	gggccctgca	ctgtcggccc	360
tgctgcgagc	ccacacgccc	ctccacatgg	ctgccctcct	cctgcttccc	tggtctcatgt	420
tgctcacagg	cagagtgtct	ctggcacagt	ttgccttggc	cttcgtgacg	gacacgtgcg	480
tggcgggtgc	gctgctgtgc	ggggctkggc	tgctcttcca	tgggatgctg	ctgtcgcggg	540
gccagaccac	atgggagtgg	gctcggggcc	agcactccta	tgacctgggt	ccctgccaca	600
acctgcaggc	agccctgggg	ccccgctggg	ccctcgtctg	gctctggccc	ttcctggcct	660
ccccattgcc	tggggatggg	atcaccttcc	agaccacagc	agatgtggga	canacagcct	720
cctgactcca	ggaagagcca	gagctgtgca	gggaggaagg	ggtgagaggg	gggccccccac	780
acctagactc	agtaagggaag	tcgggttgga	ccttaacatc	tgcataggac	aactccaccc	840
cttccttggc	cttgcccctg	cccgccctaca	ctcctacgtg	tccagggctt	gggcccgtgac	900
ttaggcagag	gagtgcagag	gaggggtctg	caggggctgc	tcaggccgcc	tagctgcccc	960
tttgccaggt	taataaagca	ctgacttggt	aaaaaaaaaa	aaaaaaaaaa	aaagggcggc	1020
cgct						1024

&lt;210&gt; 48

&lt;211&gt; 463

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (462)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (463)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 48

gaattcggca	cganttacag	gcatgagcca	ccgctcccgt	ccttgactgg	tgattttcta	60
ctgaaaccca	gacatgttag	gtattacgag	actctgggtc	ttactgaaac	cttgcttccc	120
acgctgctac	tccagcacag	gaggggaggt	gctgcccgct	tgctgtgagg	tggaggcgga	180
agtcagggtt	ccccactcag	cacccatgga	ctctagagaa	gggggcactg	tgcttactt	240
tggagggtgt	gggagtccta	gattctacta	gaccagcact	ggctgtgcgg	ggtgggggtg	300
tcaccttact	gctctttcat	ggcctccact	ttcaccatat	tctcaggatg	gcagtgcctt	360
tggagtggag	agaggggatg	tgattgggca	ggagacgcag	gaggcttcaa	aaaaaaaaaa	420
aaaaaaaaaa	aaaaaaactc	ggggggggccc	cggaaccaat	tnn		463

&lt;210&gt; 49

&lt;211&gt; 885

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (233)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 49

aattcggcac	gagagggctg	catccttgcg	ttctgtgagc	tctgcccgtt	gggagcatcc	60
atgctgatgt	gcaggggccc	tgcagcactg	cattcttctt	gccttctctg	ttctgttttag	120
tacaaccacc	ccagcaggtc	tccagttcct	gccaggttag	tgtggatggc	ccagcaccat	180
ctcctctcca	tcttggtggc	tatcctctct	tgttctctac	aaccccgcca	ggntcgcggc	240
tcaggagctc	tgccgtgtga	agtgtgctca	gcagttctcc	tcacatgtct	acgcaaaatc	300
tctggctccc	tgtgtgtctg	agcccaacag	acacactgag	cacaggagtt	ggctctcagc	360
tcctcccagc	ttgccgtgac	tgagccytgc	cgtcctgtgg	camcgccasg	gagaccacag	420
tgtccaactg	tccaaccttt	acgtaattgg	catcccagga	ggagaagcaa	gagtgaatgg	480
ggcaggaaaa	gatcattaaa	gaaatcgtgg	ctgacataaa	aaaggatgag	ttcatgtcct	540
ttgtagggac	gcgtggatga	agctggaaac	catcattctg	agcaaactat	cgcaaggaca	600
gaaaaccaa	caccatgtgt	tctcactcat	aggtgggaat	tgaacaatga	gatcacttgg	660
acacagggtg	gggaacatca	cacaccgggg	cctgtcgtgg	ggtgaggggg	atggggcagg	720
gatagcatta	ggagatatac	ctaattgtaa	tgacgagtta	atgggtgtca	gcacaccaac	780
atggcacatg	tatacatatg	taacaaacct	gcattgtgtg	cacatgtacc	ccagaactta	840
aagtataata	aattaaaatt	aaaaaaaaaa	aaaaaaaaact	cgtag		885

&lt;210&gt; 50

&lt;211&gt; 847

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (337)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (407)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (415)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 50

ggcacgagtg	aaaccataaa	gaaaaccaag	ggggtgataa	atataaaatc	caacgtgggtt	60
attacctggt	tacgggcagg	actatgatag	ggaagtcact	ggttatgttc	tgtttccctaa	120
gctggggggc	aggggtacat	gggtgtgcac	tttattataa	tgcttccaac	cgtataggta	180
tattttatat	attctgtttt	acatatttga	gattgcatga	atgtgtaatg	ctcagtaact	240
taagagtaaa	tgaactgtga	agaattagag	atggagtttt	gagggatttt	ttgttttggt	300
ttgatttttg	gagaccagat	cctggctttg	ccgtcangct	gggaatgcag	tgatgtttatc	360
catggcctca	cttcagcctt	taccctcctg	gggctcagg	gatcctncca	acttncgggc	420
ttcgattagc	tggggactcc	aggtgcacac	caccacaccc	agttgacttt	taaatttttcc	480
gtggagatga	gttctccctg	tgtattgccc	cacgctgggtc	tcaaattcct	ggcttatgga	540
atcctccctg	agccagggtc	ctggccagtt	tttgggttgt	tttgttttcc	tttttttgaga	600
tggcaatttc	gcttttattg	ctcaggctgg	agtgcagtgg	cgcatctcgc	gctcactgca	660
acctccatct	cccagggtaca	agcgattctc	ctgcctcagc	tactggggaa	gctgaggcag	720
gagaatcact	tgaaccacag	aggcggaggt	tgacgtgagc	caagatcacg	ccactggact	780
ccagtcctga	gcaacagagc	caagactccg	tctcaaaaaa	gaaaaagaaa	aaaaaaaaaa	840

aaaaaaa

847

<210> 51  
 <211> 580  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (557)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (569)  
 <223> n equals a,t,g, or c

<400> 51							
caagaaaagt	tgcatttata	acacaagtaa	cacatgttaa	gtcctctttc	acaatctctg		60
ttagttgcac	tcaatgttct	ttttctcttc	ccaaacttct	tagcactttc	taaaaacctg		120
acctacgatt	gttatttttag	gttcttccca	actttttttc	tgcttcccaa	ggaaatgtgg		180
tatctctgac	ttccacagct	ctcactttga	ttcataacac	caaggcttct	tccccctgga		240
gtgggagaca	caatagggat	ggggatgtgg	gcagaagaag	aggattctat	gaatatccat		300
agttttat	cacccacccc	aaatgtattt	atattaaagg	acccactgaa	gagcgctggg		360
gagatggtag	actcttgtct	gaagtcctta	tgctacacca	atataatctt	cttcttaggc		420
cttctcccac	taggtgaaag	gggataagct	tcgggacatc	tagaaagggg	cattaatttc		480
cccaatccta	tgagctacat	ttgagactca	cagtattaga	aagccggggc	tttatcacag		540
tctctttgga	agaagcnaaa	tttttttcng	gacagctttc				580

<210> 52  
 <211> 598  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (515)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (523)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (558)  
 <223> n equals a,t,g, or c

<400> 52							
ggcacgaggg	tcggcgggca	gggcggggct	gcatgcatg	acgtcgatgt	gtccggccgc		60
ggcgctggcc	tggcgcacct	cggcgatttc	cttgatcgtc	agcctggcgc	ccagctgggc		120
cgcggcgcg	gacaactggg	ccgcgtcgcc	atacaccacg	caggcgcgcc	cagccctg		180
cgcagccttg	acgacgattt	cggggccgat	gccggcgcca	tcgcccattg	tgatgccac		240
gggcaggag	gggttcacgg	tgctgggaat	gggattgcgt	tcgggataat	gctacacccg		300
ttcgcgggcg	acggccgggc	ttactgcttg	ccgtttttcg	gcggttcgat	gacgccgcat		360

tcgaaggtga	ccgtggcgcg	cttgggagcc	caagccggtg	gcgttggttg	gagtgatctc	420
cggcttgaag	cagcttgcg	tcccatggat	ttcgcaatgc	tgcttcgcgc	gcttgcaacg	480
cctgggttct	tcagcttcca	acccaagtgc	agcancttgg	ctnccccgaa	gcttttaagt	540
ttaacctggt	aaagtgtnc	cttggtcgaa	ccttggttg	aaccttcggc	ttcaatgc	598

<210> 53  
 <211> 571  
 <212> DNA  
 <213> Homo sapiens

<400> 53						
gaattcggca	cgagtcacc	cagcccccca	aaaaacctct	cagtagtttc	tttcagtgtg	60
caaaatgatg	agcatttttc	tatgatgagg	ttttaaccat	tattcagggg	ggctctttgt	120
ttttaaatct	ttttttaact	aataagattt	acgggtgtgt	ttttatacag	aaatgcatta	180
taaatgtttt	taattgtgtt	ctgttttttg	cagtctttta	gtgccatgcc	aattgttctt	240
atattctata	gaagttcgct	caaaatactc	aacaggggaa	taggcagcgg	acagtcagaa	300
tggttggaat	tttggttttc	taagaaaaaac	tttatcttgc	ataagcatgt	ggtcagatca	360
ttttgtgcat	atgcagcctg	gattggatgt	taagtaaatg	cttggttcagt	gccgggtacat	420
ttactttaat	ctgtttttat	ttttgtcatg	tagaatacta	ctgtgggtcat	cataatgtaa	480
tctattcttg	tacctttttt	tttttttttt	actttgaagt	cttaaataaa	atgtataata	540
cccaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	a			571

<210> 54  
 <211> 1247  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (9)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1131)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1202)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1209)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1226)  
 <223> n equals a,t,g, or c

&lt;400&gt; 54

cnccacacanc	cacaaattgg	tttggttgg	tgtaagtcag	gcttcccacc	aaagtccaat	60
atttctaaca	ctctagtgc	ataaaaatta	ttattaaata	gctaagaggt	gtgcatgtg	120
gaaaggtcag	tgcatatccc	tttaggaggg	gagaatgttg	taatatatca	gctatcgagt	180
tgtttaaaaa	aagtgtatyc	aaycgtatat	tgtctatagt	atgtgctatg	aaatttgcat	240
ttatgatatg	taacaggggc	aaagccaaat	tcatgttact	ctgttcagtc	agaaacattt	300
tgtggcatac	agcattcctg	ggaagtgtg	tactttgttt	cgttttgggt	ttagttttgc	360
atttagagtg	ccttataatt	gatgcctatt	ttaatagcat	ttcttttttag	cttttggttc	420
gtatttccat	tcactgttcg	tatctgttac	tttctattaa	agcattatct	gtttaccaca	480
tgtacaaaaa	ctctttgaat	aatatgcatt	cctagttttc	agccaagtcg	gggatgttag	540
tgattgtacc	agcccmaagc	acttggataa	tcaggggccct	tcttcctttt	ataatcaatc	600
atcaacatca	gaaaaagcta	cttggttttat	ttatattccc	ttccaaatcc	gctctggaac	660
atgcagtaac	tgacccaaac	ttattttagt	aacaaatatc	attggcaact	ttggaatata	720
tttgatattc	cattaggatt	tttctaaaag	gggaaataaa	ctatatatat	atatgtatct	780
tacccccaat	tcttccaaca	gaattttctat	aggaagccat	ggatgatggc	ataagtttgc	840
cacatattac	atgattttta	ataatcctca	aaatacccaa	ggaactctta	aagagttttg	900
gtatgagtat	actacttttg	tttaatttta	gcttcatgga	tgttctgcat	ggaaggattt	960
ttgttttcca	cattttccca	ttgctagcag	agtgaatcc	aagagaccaa	acatttgcaa	1020
gcattgtatt	tgagcacttt	tgtaaaaaaac	aaagaaaaaa	aaaaaaagga	aaatatatat	1080
aatacttaaa	aaaaaggtat	ctaggaaggg	ctaccctcag	gattggggac	ntctcttaac	1140
cctacctccg	ggaccccg	ggagggatgt	tgccttatg	tgggggtctg	tttattccat	1200
tntttttcnt	tttaggggtg	gtatcntttt	tgggggggtt	ttttccc		1247

&lt;210&gt; 55

&lt;211&gt; 848

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (98)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 55

cccccaanga	acagnttttg	gtaaatccaa	aaattatgcc	acttttataaa	aaaaaaaaaca	60
aaccttaaaa	cagggatctt	aataccctcc	ccttgtnct	cccttgcttt	actcctccac	120
tttagaatat	tttctttaa	aatcacctca	aaggactgtg	aggaaaggct	gtgggtacctg	180
accttggtga	aatcaaggcc	cggcactgta	ctacaggcct	gtttacagat	tattacgggtg	240
aactgaatgg	gtaccgaggg	ttcaccaaag	aggtaacttt	ttgttggtgt	tggttggttta	300
ggaataattg	taccaatttt	aagagcattc	ccccacctg	tccccacaca	cccaaacaaa	360
atgtgggtgg	gttgccctca	aaaaagagaa	gttttggtgc	attaacatga	cagaagaact	420
ttttaaaaaa	aaataactgt	caactattct	atttgcattt	aggagactgt	tmatctatgc	480
tagattgtca	ttttccctcc	ttctcccaca	gaagtttact	ggtagtccat	gtcatggctc	540
gtagctatcc	ctctaaccat	accatggaaa	tgcaggcacc	caatgtgaaa	aggagcactt	600
gctgggcac	actgacaccg	ctcatgtttt	acacatagtt	gagtaatcag	catatctaga	660
attatcttgc	attgcctaaa	tcatatgtat	atagtgaatg	ttatataata	tacctggcag	720



gtctgtttta	atttaattga	ataaagatac	aaatactttg	tttggctggc	atataattaaa	780
ttatttatatg	aaraaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaggg	840
cggccgct						848

<210> 56  
 <211> 669  
 <212> DNA  
 <213> Homo sapiens

<400> 56						
cagcctcatt	ttctcagtgc	cccagaggtc	taggatagga	tttctaaact	ggaatcatcc	60
ttaatcacct	tgaagatccc	ttaagaggca	tttgactggg	gctgccgtct	gtgtcctcaa	120
agcaatgctg	gtggcatcgt	cctgtgtaca	catgcagagc	taatacccaa	actaaaaact	180
gggtaactgg	ccctgaagtg	cttcccaatc	agtaagccac	agggaaatgt	ttgattttta	240
tgttctgttg	gatttttggt	tgcttggcat	atctaaaggt	gcctttactt	ttcttttttt	300
ttttttttct	ttctgctttg	ttttgttaga	cttggttctaa	catggaaaac	aagtccagaa	360
gactctcttc	tgactgttac	ctttgcccc	agccacccca	aacttttatg	ctcatgtttt	420
attaaagcag	gtgctccctg	gaatctctgg	gacatttttg	aggcatttga	agcagaatat	480
agagtgggtc	catctctctc	cttaatcttc	ctgggtgggtg	ggatgttcca	cttgtatcat	540
agattttttt	attacagata	tgctccactg	tttttaaagt	tgaacttggtg	cgcaaatgtg	600
cagattcaat	gttcttggtt	cagattgaat	aaatttttat	tttgaarawr	aaaaaaaaaa	660
aaactcgag						669

<210> 57  
 <211> 680  
 <212> DNA  
 <213> Homo sapiens

<400> 57						
gttccatgtg	gcaactgacta	ctccagagtc	cctgggaaca	ttatgctttt	tttgcacact	60
cgtctccatt	ttccacgcta	tacgtctctt	atatgcaagg	tactcttagt	agttgcagca	120
tctgtccacc	gtccttgggt	ccgtagtatc	accgggtgct	tctttactaa	atgagagtat	180
tcctcagttg	tgggagtcga	gagagagaag	agggagacag	agagagagag	agagttgggg	240
tgcttatttt	aactctgggt	ctaatacatg	tgaggtcag	cttgccaaga	aacacttaag	300
gctctgtttt	ctgcatgtag	gcaggtaatc	ctctgataga	gaaacataga	gttatcccat	360
caaaatgtga	gcacagaaat	gtatcaacaa	catgccataa	gccagtcgat	atatctaaaa	420
gccaaactgc	aaaccgggtc	ctgtgcccc	gaaaggggtg	cagaatatag	ttgtttttgc	480
aggtttttaac	attaattggc	actagacaca	cccagctgaa	gcaaggctctg	tcgctgggtt	540
tgagcttctt	ctgcctttta	ctgatgctaa	aatgttttaac	tttggctttg	gtagatttta	600
atgcagacca	agagtgtcat	ttttatgtat	aaaattttat	atttataaaa	caaaaagtac	660
ctaaaaaaaa	aaaaaaaaaa					680

<210> 58  
 <211> 524  
 <212> DNA  
 <213> Homo sapiens

<400> 58						
gggtccatat	tctccggatg	agtgcattct	tttgcttgtt	tacacaagtg	ctgaaagggg	60
tcgtgtgggt	accaatattg	atgttccatg	tgggggcaac	caagaccagt	ggattcagtg	120
tggagcagct	ctattcctaa	aaaatcagta	gaatctaata	acaacaaaag	ccatcttcac	180
aaaaggggaa	attgattctt	taagctttta	atcaaacatg	tggtcagttc	acatttgaaa	240
tgttagttca	aaatattaac	atatagttat	gttggttgatg	tcactgaaat	tttaattgtg	300
aaaagcagga	ctgtgcatct	tttaaagtta	taaattaatg	gagttattgt	taaaacagag	360
tattcttttt	acaacattaa	atatttctgt	gagaaagttc	acttttccag	tggctcaaaa	420

atttgtttta ggtccagaga ttttaagtgg tatattaacc aataataaat attttggctg 480  
tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggcgg ccgc 524

<210> 59  
<211> 427  
<212> DNA  
<213> Homo sapiens

<400> 59  
ggcacgaggt catttcagcc ttatgaattg ccagagaataa gctagatcac ctttaaggcc 60  
atgtggttag ggaaacttgg gcacagaatt tacattttca acttgggtgat aagatgggtt 120  
taaggtaaga atcaaatagg agaaagcctt agctgttcca gcggcccatg tttaaagaa 180  
tgtgtcttctt ttccaagta tttctgccgc ttgcatgcac tgagcttctt tggaaaggag 240  
caccatgcag gcatattttc cagacaggac cggatttgct cgttactcag aggtgtgtgc 300  
attcttttgc tttaggatat ttaattagca tcttttaata gtgatattac ggtgtcttaa 360  
aagtttatgc atttgaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 420  
aaaaaa 427

<210> 60  
<211> 1263  
<212> DNA  
<213> Homo sapiens

<400> 60  
ggcacgagcc ccttccggca aaacggcagc agtagcagag gcagcttctg agagcctggg 60  
caggcagcag ctggctgacc aagtcactg gaagagaagg ctgtgtccag cggggagaag 120  
gaagccgggg acaggatgaa agcaacaaca cctttgcaga cagtcgaccg gcccaaggac 180  
tggtacaaga cgatgtttaa gcaaattcac atgggtgcaca agccggatga tgacacagac 240  
atgtataata ctctttatac atacaatgca ggtctgtaca acccacccta cagtgtcag 300  
tcacaccctg ctgcaaagac ccaaacctac agacctcttt ccaaagcca ctccgacaac 360  
agccccaatg cctttaagga tgcgtcctcc ccagtgcctc ccccatatgt tccacctcca 420  
gtcccgcgc ttcgaccaag agatcgggtc tcaacagaaa agcatgactg ggatcctcca 480  
gacagaaaag tggacacaag aaaatttcgg tctgagccaa ggagtatttt tgaatatgaa 540  
cctggcaagt catcaattct tcagcatgaa agaccagtta ccaagcctca agcttcttga 600  
ttgattgtca ttctaattga tcaagattat atttactttt gaggattttt tccaattatt 660  
taattatatg caaacaaaaa tatctataca cttaagaaga accacttgcc tctcgaagc 720  
gcaggttcac acataggtct tcccttggcc tcttttgggt tttggattcc ccaatactcc 780  
cttgcattgc ctttgcctcc cctcagaaat cagtgtcctc aggattttct ttgaaactcc 840  
acagttcttc tgcattcctc tccaagccta cttctaggaa aacatttggg atcaattgca 900  
atttactctc aatttttggg ttaaaagaat tttagggtgtc agtgaacagg aaaaagagag 960  
ttttctttgt ggagctcctt caagagtctc caagaaatca cactcatatt aatccaaggc 1020  
cagccctgtg gtttaattgg aaactctagc cttgccacac ccaacatgag tgtccttgat 1080  
tgagtctttg aaacctgtg tttgcggttg tgttctggag aagcatgttc aaaaccttat 1140  
catcagataa ttcatacatg atatttgtct aagccttctt acccttctt taaataactc 1200  
atatctttta gagtaacagg actacaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1260  
aaa 1263

<210> 61  
<211> 720  
<212> DNA  
<213> Homo sapiens

<400> 61  
ggcacgagat ttctcacaat gacaaattct caaatattgc taatagtact gtggattttc 60  
ctacattggg aaattgaagg aattgctaaa tgctgaattc agcaaccagt ttgagattgt 120

tgaaaataaa	gattgtttct	ttttcaatgc	aagttcacag	atcactggag	ttctagctac	180
agtttgttct	agaccagagg	t'tgcagatat	ttttgtccta	ttaaagagaca	catgggtaat	240
atTTTTggct	ttgtgagttg	tatagttttc	gttgtagctg	ttcagctctg	ctacatgaag	300
caaccataga	ccatacctta	acaagtgggc	acttttgagt	accaataaaa	ctttatttag	360
aaataacaga	gggctggatt	tggtcctagt	ttgctgaacc	cttttctaga	tgaaggctcc	420
tcttgccaag	actggctccc	taccttggct	gacaaattct	cactttggga	cttagtcatt	480
gttgctgctc	tctgttatatt	tgcattgtct	ttctcatgtt	taggtgctgt	gtcttaatac	540
ttttttctta	catTTaattt	aacaatcatt	actgagcgt	ggtaggtcta	gtttcttttc	600
tcttctttcc	tctttttctt	ttcttttttt	ctttttcttt	atttgaaggc	tctcactctg	660
tcactccagc	ctgggtggca	gaccaggacc	ctgtctctaa	aaaaaaaaaa	aaaaaaaaaa	720

&lt;210&gt; 62

&lt;211&gt; 589

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 62

ggcacgagcc	ccgcgcattg	ggaggttaggc	tgggaccggc	ccgcggagct	gctgcagtc	60
ttcgcgccct	cctcgccttc	cccaccgaca	tcattgtcca	gttcttgctt	ggatttacac	120
tgggcaacgt	ggttggaatg	tatctggctc	agaactatga	tataccaaac	ctggctaaaa	180
aacttgaaga	aattaaaaag	gacttggatg	ccaagaagaa	accccttagt	gcatgagact	240
gcctccagca	ctgccttcag	gatatactga	ttctactgct	cttgagggcc	tcgtttacta	300
tctgaaccaa	aagctttttg	tttcgtctcc	agcctcagca	cttctcttct	ttgctagacc	360
ctgtgttttt	tgttttaaa	caagcaaaat	ggggccccc	tttgagaact	acccgacatt	420
tccaacatac	tcacctcttc	ccataatccc	tttccaactg	catgggaggt	tctaagactg	480
gaattatggt	gctagattag	taaacatgac	ttttaaaaa	aaaaaaaaaa	aaaaaaaaaa	540
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaag	ggcgccgc		589

&lt;210&gt; 63

&lt;211&gt; 686

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 63

tgcacccacg	cgccgaact	gccaaaagct	ggtgattctg	ggacaggcct	tcacttttga	60
gccacgggat	ggggtggggg	agcccatg	gcctgggaag	gaggggtgctg	tggagggggc	120
tgcagggctg	accagcaggc	agcctcatct	ggtcgggggc	gggggcggca	ggagcagaag	180
cggggctctc	gtccttggga	ctgtcctggt	tggccacggg	ccctgaggat	gcacggtgcc	240
tggggctcct	gtgccggtgg	gcggggggca	tgctggcctc	tgagcgatca	ggcgaggcca	300
gcgaggggtg	gcttgcaaat	tcaagcaata	agaggggggt	tcctgggggc	ttccagccca	360
ggctagaagc	ccccatggct	tctggcagct	ggacatcagc	cccaggattt	gggggtgattt	420
tgggtcatgac	agtgtgcctg	tcccactgtt	acacgcatga	atgggggtta	tgggggtgggg	480
gtgggactca	aggcttgacc	gactcctagt	ggacctgatg	tgaaattcct	gtcaaacaaa	540
caccactttt	caatggtttg	ctaggagtat	ttctgtattg	aaagtttcta	attatgcttt	600
ttaaaaaaat	actaaaaata	aagggttcaag	ctgccaaaaa	aaaaaaaaaa	aaaaaaaaaa	660
aaaaaaaaaa	aaaaaaaaaa	aaaaaa				686

&lt;210&gt; 64

&lt;211&gt; 452

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 64

attgtgtagc	attcaaaacc	tgctgaacac	tcaccctcaa	tgtatattct	ctgtttctggc	60
ctgcttcaag	gtcagttaca	ctacttctctg	ggatgggcct	ttctctggct	taagcttggt	120

tgtccctggc	tttcccaagg	atcacagccc	aaaaggcaca	gtgggggaaaa	tttatggcct	180
attcgagaag	agtgagcagc	ctaatacaagc	caagccttga	tttgggggttc	tcacttcact	240
ggatattttcc	ctctgtccct	aattgggttt	tctatagtta	ctagttttcc	aggcctccaa	300
gggagattct	gaggcttgat	gtgttctgac	tgtgtcttgg	ctttgtgatg	ctgagtgcc	360
gaaatactct	gtactataaa	aactaccatc	gttctttgaa	acaacaaaga	ggaataaaga	420
acttaattct	ggtgaaaaaa	aaaaaaaaaa	aa			452

&lt;210&gt; 65

&lt;211&gt; 370

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 65

ggcacgagtt	gcggtgaacc	agaattataa	cagtgaagtc	atctgactgt	tttaggatgt	60
acagcctagt	gttaacattc	ttggtatctt	tttgtgcctt	atctaaaaca	ttctcgcac	120
actggtttca	gatgttcatt	tattatattc	ttttcaaaga	ttcagagatt	ggcttttgc	180
atccactatt	gtatgttttg	tttcattgac	ctctagtgat	accttgatct	ttccacttt	240
ctgttttcgg	attggagaag	atgtaccttt	tttgtcaact	cttactttta	tcagatgac	300
aactcacgta	tttggtatctt	tatttgtttt	ctcaaataaa	tatttaaggt	taaaaaaaaa	360
aaaaaaaaaa						370

&lt;210&gt; 66

&lt;211&gt; 987

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 66

gttttgcctc	gtggacccaa	aggtagcaat	ttgaaacatg	aggagtagca	ttctactggt	60
ttgtcttcta	ggatcaactc	ggtcattacc	acagctcaaa	cctgctttgg	gactccctcc	120
cacaaaactg	gctccggatc	agggaacact	accaaaccac	cagcagtcac	atcaggtctt	180
tcctttctta	agtctgatac	cattaacaca	gatgctcaca	ctggggccag	atctgcatct	240
gttaaatcct	gctgcaggaa	tgacacctgg	taccagagac	caccattga	ccctgggagg	300
gttgaatgta	caacagcaac	tgacccacac	tgtgttacca	atttttgtca	cacaacttgg	360
agcccagggc	actatcctaa	gctcagagga	attgccacaa	atcttcacga	gcctcatcat	420
ccattccttg	ttcccgggar	gcctcctgcc	caccagtcag	gcargggcta	atccagatgt	480
ccargatggr	agccttccag	caggaggagc	aggtgtaaat	cctgccaccc	agggaacccc	540
agcaggccgc	ctcccaactc	ccagtggcac	mgmtgacgac	ttwgcagtga	ccacccctgc	600
aggcatccaa	aggagcacac	atgccatcga	ggaagccacc	acagaatcag	caaatggaat	660
tcagtaagct	gtttcaaatt	ttttcaacta	agctgcctcg	aattttggtga	tacatgtgaa	720
tctttatcat	tgattatatt	atggaataga	ttgagacaca	ttggatagtc	ttagaagaaa	780
ttaattctta	atttacctga	aaatattcct	gaaatttcag	aaaatatgtt	ctatgtagag	840
aatcccaact	tttaaaaaca	ataattcaat	ggataaatct	gtctttgaaa	tataacatta	900
tgctgcctgg	atgatatgca	tattaaaaca	tattttggaaa	actgaaaaaa	aaaaaaaaaa	960
aaaaaaaaaa	aaaaaaaaaa	aactcga				987

&lt;210&gt; 67

&lt;211&gt; 1018

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1014)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1015)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 67

ggtgcccccg	ggggcacggc	gctggggagg	cgatggcgcc	ggcgcgctcc	aggctgcggg	60
ccgaagcccg	gctcggggcg	ctgccgcggc	gggcgctcgc	ccagtacttg	ctcttcctgc	120
ggctctaccc	ggtgctcacc	aaggcggcca	ccagtggcat	ttgtcagca	cttggaact	180
tcctggccca	gatgattgag	agaagcggga	aaaaagaaaa	ctctagaagt	ctggatgtcg	240
gtgggcctct	gagatatgcc	gtttacgggt	tcttcttcac	aggcgcgctg	agtcacttct	300
tctacttctt	catggaacat	tggatccctc	ctgaggtccc	cctggcaggg	ctcaggaggc	360
ttctcctgga	ccgcctcgtc	tttgcaccgg	ccttcctcat	gttggtcttc	ctcatcatga	420
actttctgga	ggggaaagac	gcctcagcct	tcgccgccaa	gatgaggggg	ggcttctggc	480
cggcgctgag	gatgaactgg	cgggtgtgga	cgccactaca	gttcatcaac	atcaactacg	540
tcctctgaa	gttcgggtg	ctcttcgcca	acctggcagc	tctgttctgg	tatgcctacc	600
tggcctcctt	ggggaagtga	cgaccgctgg	gagaacatca	ggtgcactgt	ggacgtgggt	660
ctgggggtct	caccgcacca	gcgagagcag	aaccaatcca	gtcaggatgt	cactgactct	720
aaatcaggtg	attcaagatg	cccaaaaatg	atggatagag	aaacagaaat	ctctgaatgt	780
cagaaccctg	ttttttaaaa	aggcagtcrc	tgccttcagg	tgggtctgcc	ccagaaactt	840
aaaatttagt	cgaggcagtt	tcaattgtta	ctgtggaccg	aattaggatc	acaataaacg	900
ataatgcagg	ttcttcaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	960
aaaaaaaaaa	actcgagggg	gggcccgtac	ccaatcgccc	tgatgatgat	ctgnncac	1018

&lt;210&gt; 68

&lt;211&gt; 762

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 68

ggcacgagtg	cctctacgtc	atgtcttctc	caatgtcatg	attcacgtcg	tgcagtactg	60
ttttggactt	gtctattatg	tccttggttg	cctaactgtg	ctgagccaag	tgccaatgga	120
tggcaggaat	gcctacataa	cagggaaaaa	tctattgatg	caagcacggt	ggttccatat	180
tcttgggatg	atgatgttca	tctgggtcatc	tgcccatcag	tataagtgcc	catgttatct	240
gcggcaatct	caggaaaaat	aaagcaggag	tgggtcattca	ctgtaaccac	aggatcccat	300
ttggagactg	gtttgaatat	gtttcttccc	ctaactactt	agcagagctg	atgatctacg	360
tttccatggc	cgtcaccttt	gggttccaca	acttaacttg	gtggctagtg	gtgacaaatg	420
tcttctttta	tcaggccctg	tctgcctttc	tcagccacca	attctacaaa	agcaaatttg	480
tctcttacct	gaagcatagg	aaagcttttc	taccattttt	gttttaagt	aacctcagtc	540
atgaagaatg	caaaccagggt	gatggtttca	atgcctaagg	acagtgaagt	ctggagccca	600
aagtacagtt	tcagcaaaagc	tgtttgaaac	tctccattcc	atttctatac	cccacaagtt	660
ttcactgaat	gagcatggca	gtgccactca	agaaaatgaa	tctccaaagt	atcttcaaag	720
aataaatact	aatggcagaa	aaaaaaaaaa	aaaaaaaaaa	aa		762

&lt;210&gt; 69

&lt;211&gt; 630

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 69

tcgaccacag	cgtecgcttg	gttctcacc	ctgttggagt	cagctttcaa	gattgcctgt	60
gcccctgctc	tgccccatcc	tggctggcag	ggctgcagt	ttccatcctg	tttgccctctt	120
ttattttaatg	ccaaagtttt	agccaaagac	atcttcctac	ttttgttggtg	tttcagcatt	180
ctgttctgca	ctgtgggctg	gctctctgcc	ccaaccctgg	gcactggccc	ctggctggggc	240
catttctatg	ctcaaagcct	ctgggggctc	aaggaaggct	gggctgctca	gtcccttcat	300
gggtcttgct	aatggaaagt	agcatatatg	tgcttttaaaa	atattaatcc	ttttgaaaag	360

aactgagaag	aaaaatgtat	aatttttatcc	cattttttaat	attttggtct	agcaacttgt	420
gatacataga	tgacaatttt	gtgagttttt	caaagtgtgtg	tacagatttt	tgtaaataatg	480
actcttttgt	aattaactca	tgtacagcct	catcctgtat	agtttaaatga	tgaatgtgca	540
ggggacctgt	ctcaggctcc	tatatggtta	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	600
aaaaaaaggg	cggccgctct	agaggatccc				630

&lt;210&gt; 70

&lt;211&gt; 940

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 70

ggcacgaggg	gactctgggc	atggctgtgt	ccctgtggcc	tgaggggtct	gggcctctct	60
gtgccctctc	cctgctcacg	tgctgcctcg	ttttgcgtcc	tgcttcaccc	tctggattcc	120
tctggagcct	ggaagagact	cctgcccttc	aagggtcttg	tgaaattgcc	cagccttaag	180
tgtagagtct	agttttttaga	ctaatttttt	ttgtattttt	gtatttgtaa	tttttgtggg	240
tacatggtac	atacgtttgt	aggtatgggg	tacgtgagat	attttgatat	aggcatgcag	300
tgtgtaataa	tcgcatcagg	gtaaaggggt	atccaaccct	caaacatttg	tcctttgtgt	360
tccaacaatc	caattaatac	tcatagtgat	ttaagaatgt	atgatacatt	attggtgctt	420
gtaatcctgt	tgtgctggca	aacaccaggt	cttactggtt	ctttctcact	atgatttgta	480
cgtgttcacc	ctccccacct	cctgtagtct	agtttttatt	ctgtcttttc	cccagaggcc	540
acagaaaactg	gtgtggagag	gtgatgctca	cttcccagcc	ttgggggtcag	cccctgcatt	600
ttctctctag	gaccatgtgt	ttctcgattg	ttttcattcc	tctgttgtea	gttttagccag	660
atgcagtcac	atgaggtctt	tgcgcaaacc	ttagggtaga	tacagatctc	aaaaatgtgc	720
caagcggggg	gagggcagga	ggcacaggaa	gggaggagaa	ggaagcctag	ctgactcctc	780
ccacccccaa	gggctgcccc	tccctacact	cctgtttgag	taagagtggc	agccacctgc	840
cctgtccccg	ggggtgacaa	ccttgagctg	ggagggcgag	cccctcagtg	ccttctttta	900
gacctgtctc	acctgcaggt	gtctctctag	ccaggctcaa			940

&lt;210&gt; 71

&lt;211&gt; 1103

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 71

gtcttaaatga	gcaacagcaa	cagcagtcct	cagttaagaa	agagagaatt	aaatacagca	60
gagattttcct	gttgaagctc	tcaagtgttt	ccatctgcag	aaaaaaacca	gactttctgc	120
ctgatcatcc	cattgtactg	caaaaaccag	aaaacaacca	aagttttaag	tagcattttta	180
agaacagatg	aattttaagtt	tggacatctg	caaattgaggt	ggatctagca	acaataaactg	240
taatggactg	tgacaattca	atttattctt	aatttttgatg	gttggctatt	tgactttctct	300
aaaaatgaga	aagagctatt	ttaaaaatata	aagaattttc	taatcagttt	cagcttttgca	360
ggaggtttcc	tgcataaatt	gggaagtaac	actggaaagt	aggaatttgg	ttagtgaagt	420
gggaagactg	tatatattata	atttgcatac	tacttgcaat	tttttgtttt	tcatacacttg	480
taataatgga	atggaaatgt	aagctgtaaa	gactctcaaa	tataaaatat	ttgctacagt	540
gtatatatgg	tacataattg	cttgttgctt	ttaaagtcc	ttctgttggt	ctgcttccca	600
ctgattttcat	accagctcat	gaatggatca	ttacagtcct	tccagaggct	tagaatgatt	660
cagaatgttc	aatgcatagt	tctcaataaa	caggaggcag	aattttttaat	gggtattttct	720
tttcagatat	atgattggtc	tctaggtttt	tgataataat	atggctcttaa	attcataatt	780
actagcagag	attgataatt	tggaaacaat	ggtagtgaat	gaaactgaag	ttgaaaaacg	840
gctgctactt	atgtcactaa	tcagaccata	tgaatagcag	aagttgagca	atttcaaagt	900
aaaactgata	tttttatttc	caaaggaatt	tagacatttg	aaaataattg	acatacatta	960
agtttttaatt	cgataatttc	ttatatatgg	atgaacaatt	tttgggttta	agctttttaat	1020
tcctagaaat	tttatacatt	aaatctcctg	caatttgtca	ctctggatgt	tactgttttaa	1080
aaaaaaaaaa	aaaaaactcg	tag				1103

<210> 72  
 <211> 899  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (20)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (85)  
 <223> n equals a,t,g, or c

<400> 72  
 ggagagtggt ggagggcgtn ggtggatgag tcaccatcct ccctcaagga cgtcttgggc 60  
 aagttgtctg gccccattag ccagnaacca gggaaatgta gctgcaggaa aatcacctcg 120  
 ttctctcggg atgttttttc ttaggctggt ttcctttaca agctgcaatt atgttccatc 180  
 ccacgcaatt cagttaagtg gcacttttca gagaaactgt cttgggtgatc atttgggctg 240  
 ctgtgggcac gaggttgagg agagaaggga gtgagagctt ctactgagtt tagttggttt 300  
 tgtgtccatg agccatttac aaactttgca cctgattggg ctgagttgca gtttcttgta 360  
 ttccctacc agccaagctg ttgaagctgc tgagcccgga atgatgttat cactgaggca 420  
 gatgacaaac cctctagttg ctagaaacca aactgctccc cgagctgggtg tttccgtttt 480  
 ttgtactgac tgcttatttg ggcttgatat ataattggtga aaacagggaac tgtttatttt 540  
 aggtgataag aaaccaacat tatgacaaga agatgtcatc ttagttactc tgttaccagt 600  
 accataggcc agatactatc tagatgctta taaacatctt atctaactct tgaataata 660  
 agccccaagc taggttttat atccccattt tatggatggg ggaactgagg ccaataaactt 720  
 catataactt atccaaggcc acaaaaactag taataaacag agtgaaattc aacccaaaaa 780  
 caaactacaa atccaaattt ctttacctct atgctgtctg tacttgctgt tactagcaaa 840  
 gttctcttgg tgggagttac cccatcccct ctccaaaaa aaaaaaaaaa aactcgtag 899

<210> 73  
 <211> 549  
 <212> DNA  
 <213> Homo sapiens

<400> 73  
 tcgaccacg cgtccgggct gacatgatgt atttctgcca gatgctggca gttgtggaaa 60  
 ctatcaatgc agcaattgga gtcactacgt caccgggtgct gccttctctg atccagcttc 120  
 ttggaagaaa ttttattttg tttatcatct ttggcaccat ggaagaaatg cagaacaaag 180  
 ctgtgggttt ctttgtgttt tatttgtgga gtgcaattga aattttcagg tactctttct 240  
 acatgctgac gtgcattgac atggattgga aggtgctcac atggcttcgt tactctctgt 300  
 ggattccctt atatccactg gggatgtttg gcggaagctg tctcagtgat tcagtccatt 360  
 ccaatattca atgagaccgg acgattcagt ttacattgac catatccagt gaaaatcaaa 420  
 gttagatttt ctttttttct tcagatttat cttataatga tatttttagg gttatacata 480  
 aattttcgtc acctttataa acagcgcaga cggcgcctatg gacaaaaaaa aaaaaaaaaa 540  
 aaaaaaaaaa 549

<210> 74  
 <211> 590  
 <212> DNA  
 <213> Homo sapiens

<400> 74  
 attggatcgt ttctctactg ggacgtggcc ccagcttctc cgtgactctg cagcacacct 60

gttcccaccc	tgttctgccc	caggattgtg	ctggaagtgc	tgggtgtgct	ccgaagcatc	120
agcgaacagt	gccgccgtgt	gtccagccag	gtcaccgttg	cctcagagct	gagacacagg	180
cagtgggtgg	aaaggacgct	gcggtctcgc	cagcggcaga	actacctgcg	tatgtggagt	240
agtatcagac	tactgtcccc	tgtgctcagc	ctgatactgt	tactcattgc	gctggagtgt	300
gtcaacattc	atgctgtttg	tgggaagaat	gcgcatgagt	atcagcagta	cctaaaagttt	360
gtaaagtcca	tcttgcagta	cacggagaac	ctggtggctt	acaccagtta	cgaaaaagaac	420
aagtggaaatg	aaactatcaa	tcttacrcat	acagctttgt	tgaaaatgtg	gacttttagt	480
gagaagaaac	aaatgttaat	acatttagcc	aagaaatcca	caagtaaagt	actcttatga	540
aaacttgtaa	aaaaaaaraa	ararrrraaaa	aaaaamctcg	aggggggggcc		590

&lt;210&gt; 75

&lt;211&gt; 1056

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1051)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 75

ggcacgagggc	gaaaccgcct	acgacgggtgc	cgagtgagg	ttccaagagc	ctctgagttc	60
ctgcctttttt	tcatctctga	atccccacca	ttggcctaca	ttgggagtg	ggcgacctgt	120
gatgctgacg	ttagaggaca	aggacatgaa	gggattctcc	tggggccatag	tcccagcctt	180
aacctcccta	ggctacctga	ttatactggg	ggtctccatc	tttcccttct	gggtgcgact	240
gacaaaacgag	gagtcccacg	aagtcttttt	cagtggccta	tttgagaact	gcttcaatgc	300
caaatgctgg	aagcctcgac	ccttatccat	ttacatcatc	ctcgccgggg	ttttcctgct	360
ctctgcagtt	ttcttggctt	tgtcaccac	cttcatcatg	atgccctttg	catccgagtt	420
cttccccgag	acctggaagc	aaaactttgt	gttagcctgc	atcagcttct	tcacaggggg	480
ctgtgccttc	ctggctttgg	tgtgcatg	cctggagatc	aaggctctga	ggatgaagct	540
cggccccctg	cagttctcgg	tgtgtggcc	ttactacgtg	ctgggcttcg	gcatctttct	600
gttcatagtg	gctggtacca	tctgcctcat	tcaagaaatg	gtttgccctt	gctggcactt	660
gttgtccact	tcccagagta	tggaggagga	ccacggggagc	ctgtacctgg	acaatctgga	720
gagtttggga	ggagaaccga	gctcagtaca	aaaggagaca	caggtgacag	cagaaacagt	780
catctagccc	aggacatggc	ttctttaccc	ttcttcaagc	catgtgagtg	tacacatgta	840
gctgtttgta	gtcctcccca	ccctctctgc	cagtatctgt	gcctttgagg	agcttcttgc	900
gtgtcagatc	aactctccac	ctccccatac	tcacagtgat	tctatcttgc	ttgtatgtga	960
aatttgctaa	aagtcccttc	aactctaaaa	aaaaaaaaaa	aaaaactcgt	aggggggggcc	1020
cggtaaccaa	tcgtccctga	tgagtgtaaa	ntatta			1056

&lt;210&gt; 76

&lt;211&gt; 930

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (919)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 76

gcagagctgg	acagcgccctg	ctgcccgcct	cccgatggcc	ctgccccaga	tgtgtgacgg	60
gagccacttg	gcctccaccc	tccgctattg	catgacagtc	agcggcacag	tgggttctggt	120
ggccggggacg	ctctgcttcg	cttgggtggag	cgaaggggat	gcaaccgccc	agcctggcca	180
gctggcccca	mccacggagt	atccgggtgcc	tgagggcccc	agccccctgc	tcargtccgt	240
cagcttcgtc	tgctgcggtg	caggtggcct	gctgctgctc	attggcctgc	tgtggctcgt	300



caaggccagc	atcccagggc	caccttcgat	gggaccacct	tcacctctcc	agagacctgt	360
actacctcac	tgtggagtcc	tcagagaagg	agagctgcag	gacccccaaa	gtgggtgaca	420
tccccactta	cgaggaagcc	gtgagcttcc	cagtggccga	ggggccccc	acaccacctg	480
cataccctac	ggaggaagcc	ctggagccaa	gtggatcgag	ggatgccctg	ctcagcaccc	540
agccccgctg	gcctccaccc	agctatgaga	gcatcagcct	tgctcttgat	gccgtttctg	600
cggagacgac	accgagtgcc	acacgctcct	gctcaggcct	ggttcagact	gcacggggag	660
gaagttaaag	gctcctagca	ggtcctgaat	ccagagacaa	aaatgccgtg	ccttctccag	720
agtcttatgc	agtgcctggg	acacagtagg	cactcagcaa	acgttcgttg	ttgaaggctg	780
ttctatttat	ctattgctgt	ataacaaacc	accccagaat	ttagtggctt	aaaataaatc	840
ccattttatt	atgtcaaaaa	aaaaaaaaaa	aaacttcgta	gggggggctc	cggtagccaa	900
tcgccctgat	gagtggagtng	tattgttccg				930

&lt;210&gt; 77

&lt;211&gt; 4463

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3308)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3469)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4119)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 77

cagcaatgaa	atcctgcttt	cttttcctca	gaactactat	attcagtggc	taaatggctc	60
cctgattcat	ggtttggtga	atcttgcttc	ccttttttcc	aacctttggt	tatttgatt	120
gatgcccttt	gcctttttct	ttctggaatc	agaaggcttt	gctggcctga	aaaagggaat	180
ccgagcccg	attttagaga	ctttgggtcat	gcttcttctt	cttgcggtac	tcattcttgg	240
gatagtgtgg	gtagcttcag	cactcattga	caacgatgcc	gcaagcatgg	aatctttata	300
tgatctctgg	gagttctatc	tacctatttt	atattcctgt	atatcattga	tgggatgttt	360
gttacttctc	ttgtgtacac	cagttggcct	ttctcgtatg	ttcacagtga	tgggtcagtt	420
gctagtgaag	ccaacaattc	ttgaagacct	ggatgaacaa	atttatatca	ttaccttaga	480
ggaagaagca	ctccagagac	gactaaatgg	gctgtcttca	tcggtggaat	acaacataat	540
ggagttggaa	caagaacttg	aaaatgtaaa	gactcttaag	acaaaattag	atccttggag	600
ttctttttct	gtgcttcagt	ctcctgtctg	gcactttgct	gcacagactc	cagctgacat	660
agtctcccca	gattcccat	tcattgctctc	aactcaagg	atgagctggg	ctcagcttgt	720
gttctctctt	cctgcattac	ggcctggaaa	ctctcaagac	aagaggcgaa	aaaaggcttc	780
agcatgggaa	agaaatttgg	tgtatcccg	tggttatggt	ctccttctta	ttgagacatc	840
catctcggtc	ctcttggtgg	cttgtaatat	tctttgccta	ttggttgatg	aaacagcaat	900
gccaaaagga	acaagggggc	ctggaatagg	aaatgcctct	ctttctacgt	ttggttttgt	960
gggagctg	cttgaaatca	ttttgatttt	ctatcttatg	gtgtcctctg	ttgtcggctt	1020
ctatagcctt	cgattttttg	gaaactttac	tccaagaaa	gatgacacaa	ctatgacaaa	1080
gatcattgga	aattgtgtgt	ccatcttggt	tttgagctct	gctctgcctg	tgatgtcgag	1140
aacactgggg	cttcataaac	ttcacttacc	aaatacttca	agggattcag	aaacagccaa	1200
gccttctgta	aatgggcatc	agaaagcact	gtgagacgca	cagacggcgt	cttctgccac	1260
caagagaccg	agaactccag	attcacgaca	ttcctgtccc	atgtagaagc	atttccattc	1320
awccgtggsc	cctcttcaga	acctagacct	atcagtgcc	tttttttttc	ataatctacg	1380
agaacttg	ctatggctga	tcttttttaa	atttaacttt	ctgatggacc	ctgtagtttc	1440

cagttaagtg	cagattccctt	acagacatat	agaacagcgc	attcttctgt	agacatttgc	1500
tcatgtttgg	aaatacaatc	acccatatga	aaaaattgtt	ttcacctgat	atgaaaatgt	1560
tagaaaaggg	aaactccggg	acttctaaag	atttacttaa	atcccattat	gtactttatt	1620
cagaatgtag	aagctgactt	gaaaggcatc	cttggtacta	agtgaagctt	attcagaaaa	1680
tgcatttttc	aaatgcaatg	gcaactgctt	gtagatatca	tttttgcagt	gtatgttgga	1740
gctgtaatgg	ttgcaattat	gtttcttatt	tccttaaaag	caaaaagcgt	agtttctgat	1800
ttatgttata	gaatgatact	gatttagactt	tgagccaagg	ggaaaatact	aaattctttt	1860
aaacctggag	ccttagagag	ccacaggaat	atcttctgtt	gtacagtcta	ataagctgtg	1920
gtaggaagta	tcatgtaatc	acagtttaat	gacagtttat	gtatatatat	aattcagtat	1980
tccctctgat	aacatagttg	ccagtgttta	atacacttgt	aacttggatt	tttaccttat	2040
aggctatatg	tatactcagt	tttttaaagc	atttttttca	gagatcactt	aattccccat	2100
gcttctgcaa	tgcataataa	aactataaat	gccgagtggg	agaaactcct	ctttcttcac	2160
agtccctcag	ctttggttac	atttgcatac	gccatttgaa	gcctccagct	tttaccagtt	2220
taacatccaa	agttcacagc	atcagcattc	atgggtgaag	aacagttttg	cagtataaca	2280
cgatctgata	atcattcagt	tattaaattg	taaataatta	ttgggatggg	ttcttggctt	2340
taagtccact	gaataaaaac	tatgaaattg	cactctgtgt	caaccatcca	ctaggataga	2400
ataccgaaat	ctgtgcatgc	aaaaatagga	gatggggcca	tttgcacaca	attcgtagtt	2460
atgcagtcctg	ctatataaat	atgttcacac	gcactgtgtg	tatgaaaata	gatggctctgt	2520
gttcagacaa	aagtaaaaaca	tttttttcaa	attgtttacat	ttaaagggtt	tctgggagaa	2580
atztatgaaa	cgcaggctgt	gtctatttga	catcagaaat	ttccacttta	aaccaaaata	2640
ataagaaact	ttaatctgta	tatttacaac	ctttgttgag	tacacttccc	ccttattttat	2700
acgtctgcat	ttccttccga	gcttcacatc	tttctaaaat	gcagcttggg	tttaaaataa	2760
aagaacattc	attttgtgat	tctaaacaag	cttcagtaaa	taccaccagt	atagtactgg	2820
tgaattttctc	agcataaaat	cgacatacct	aaaaagttaa	taaaattcag	ctcttttcca	2880
atttcattgt	tatgcctatt	gaagtattaa	ttgccagggt	tgatttttag	tgaagcttgg	2940
agtccatact	ttgagcagac	caagtgaagg	gaagaacaga	aagaaaactca	ggagtagagt	3000
aatatcactt	ctgcacttac	accactttca	ggcacatcca	aagagtccct	agatacttgg	3060
aaaatgtctg	aaaattttta	agtaaaatac	taaacttttc	agtgttttag	tcaacttttt	3120
gttcattttg	aagtttctct	ccatccgagg	acttaagcca	gttttggatt	tgtaaagcct	3180
gagtacaata	cacttccctg	aggcatcctc	actgctgttg	aagcaaagga	tatgcattgg	3240
gtggaaggac	ggcttcgaac	ctgggactca	tatgccttga	gaacaaatag	attgttacag	3300
ccttgggntg	ctgcgtaatc	acggttcctc	gaggctcttc	ctgagcacat	gccaagcat	3360
ctgcctctgg	agagactgac	tccaaatgca	ggtgcttcca	ttggagctag	gtcggagget	3420
gctttatatg	acgaactccc	agaaatggat	gcccagaata	cggaggccna	aacgttctga	3480
gcyccgtgta	aggacagtcg	ctctgggggt	cctcatttta	cctgcagttc	ctgcacgccc	3540
agtgaagag	aggagataga	ccctggaagg	cagagctgca	gatgctcatc	atcaggtcaa	3600
ttctggagct	acagttttgt	ttctgactgg	atagggatgc	accagtgact	gtcacatcaa	3660
gcagtccttt	tattctctct	cctttagtat	cgatttttaa	gggcattagg	cactatgggt	3720
ccagagtttc	ttggggaaaa	cttgcagatt	cttattaatt	ggttctgcaa	tacttaataa	3780
aattattttta	caattataag	ttttcagatt	ataacatttg	tattaatttt	tactgatttt	3840
ccaagatact	tcttagattt	actattttac	tagcttttat	tacattctct	gtaaaaatag	3900
acctctaaat	atgaggcttt	acatgaaatt	tgtacacaca	tacacactaa	tgttagctcc	3960
ttaaatttgt	gcactaagggt	gctggttagt	agagatggac	ggagcctctc	gcgttttgc	4020
ctcagatgtg	ttaaaggcgc	acgtgtacct	gctctcagcg	gcagtgcggc	ctccccatct	4080
gctgggtgcc	catggccctc	cctgcagcct	cagtgatgna	cctcgtctgc	cmrgggacac	4140
aggtttttcat	catttacagg	stctttatgtg	ctagttttgt	tggttagcac	ttattttaatg	4200
cataaaaggca	gaattctttac	aagttttttt	ttttaatgtg	aacatagatg	cagaccgcac	4260
tttttaaaact	tgaaaaaaact	ggtataatgt	taacttttaa	aaataacatt	tggacacact	4320
agtaattgat	ttttgtttac	agattgtttt	gtttacaaat	tgttagtctt	tgtttctatg	4380
agatactttt	agtgtgactt	tttaaatgtc	ttagaaatta	aaagtgtgtac	aaaaagtgat	4440
ttcaaaaaaa	aaaaaaaaaa	aaa				4463

&lt;210&gt; 78

&lt;211&gt; 791

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 78

cccacgcgctc	cggttctcct	gcttgccatc	aatggagtga	cagagtgttt	cacatttgct	60
gccatgagca	aagaggaggt	cgacaggtag	aattttgtga	tgctggccct	gtcctcctca	120
ttcctgggtgt	tatcctatct	cttgaccctg	tggtgtggca	gcgtgggctt	catcttggcc	180
aactgcttta	acatgggcat	tcggatcacg	cagagccttt	gcttcatcca	ccgctactac	240
cgaagagccc	ccacaggccc	ctggctggcc	tgcacctatc	gccagtccctg	ctcgggacat	300
ttgccctcag	tggtgggggt	actgctgttt	cggagggtatt	cctctgctgt	gagcagggct	360
ggccagccag	actggcacac	attgctgtgg	gggccttctg	tctgggagca	actctcggga	420
cagcattcct	cacagagacc	aagctgatcc	atttctcag	gactcagtta	ggtgtgcccc	480
gacgcactga	caaaatgacg	tgacttcagg	gaagcctgga	cacccgaggc	acctggacca	540
gctatgggta	gttctgtggg	tggaaacacat	tctgtgtaag	agccccactg	agggctctgc	600
agcggagtga	cagcaacccc	agagatgagg	caccagagag	tgccactgca	tgagacacct	660
gtgaccattc	gaagtctgaa	atgcgggggg	ggagtttcat	ttttaagtga	agacccaaaag	720
ccctttaaaa	ataatagttt	tttatcattt	tatagtaaaa	aaaaaaaaaa	aaaaaaaaaa	780
agggcgggcg	c					791

&lt;210&gt; 79

&lt;211&gt; 1292

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (488)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 79

tcgaccacag	cgtccgacta	cttttataat	cagaaaatag	gatatataga	aatgggtctgg	60
aaaaaatgag	gagagaagtt	acaatagggg	ggatcatctt	aatctgtttg	gaccagcaag	120
taaaagcagg	aaatgctgtc	caccaccaat	ggcttaataa	tgtgtgttgg	atgggtgggtg	180
tggttgggtg	ttctgggggt	ggggatgggg	ggaaccttgg	gatgtgatgg	ttttcttagt	240
cagagatggg	gctttacagc	tggaaggtat	cttgaacttg	gtggagggtc	atccagacat	300
caggcagatt	tcatattttc	acagacaaag	gctacgttta	cgtctaaggg	gaaaacacaa	360
aatactaaga	tagaaacctc	catgccccct	caccttttca	gacaacaaga	acccccaggg	420
cagaggggtc	tcctcactct	cagagttact	ttgacttctc	atctgggttt	gtgtgggtaa	480
tgcatttnca	ctcttgagtt	tcttttcttt	ttaagggtat	ttcattatga	cgtttgttct	540
tttgcaaaga	gctaattctg	cagaattcta	cccaggggagg	gccgaggggaa	gttagtgaag	600
gtaacgatac	cagttagaaa	gttgagtttg	ggatcatctc	ggggcctcct	ttggcctcct	660
ttggccttat	ttctagagat	ggcccttact	tcccaggaat	agatagtgat	gtcttactga	720
gttgccagga	gagctctgtat	tgaagcgcaa	gattttcttc	cctgacttgt	ctgggaatcc	780
ttaccagga	ctgtggcttt	cctcttccat	atccctccac	caggargcag	gctctaagcc	840
tctgtgctgt	catccttttg	ccacttccat	gaacatgcct	tcaaatactt	gaaaaagtca	900
ctatagcgta	aagtatactt	ttctcttttg	gtgatgcctt	tctgcatttt	ctctataacc	960
agagagtaag	aataaaaacta	cagcttggga	cctggcgcg	tggtcacac	ctgtaatccc	1020
agcacttttg	aaggctgagg	agggtggatc	acctgagggt	gggagtgttg	gaccagcctg	1080
accaacatgg	agaaaccccc	tctctactaa	aagtacaaaa	ttagctggca	tggtggcaca	1140
tgctgtagt	ctgagctact	cgggaggctg	aggcaggaga	atcgcttgaa	ccttgggggt	1200
ggaggttgca	gtgagttgag	atcttgccat	tgcactccag	cctgggcaac	aagagtgaaa	1260
cgccatctca	aaaaaaaaaa	aaaaggcg	cc			1292

&lt;210&gt; 80

&lt;211&gt; 1283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> SITE  
<222> (341)  
<223> n equals a,t,g, or c

<400> 80  
gaattcaaag tttaccaaag gtgcaaaatg agcagtttta ccttaggatt attattttta 60  
tttataattta ctactgcaga aaattatttg attctttttc agagaaaata ctgtttgggt 120  
atatttttggg gggagttttg aatttcacat acgaaagaaa taacacagcc ctttcaaact 180  
gcctgtgttt caacctgcaa agtttttttt gtgctaaaga tttgagcttt gtgaaggatt 240  
cccttttttt tccttcttct ccagcaatct cagctacctg ggcgctcctg ctaatgattt 300  
ctgggtgttc gtgccagggg tcggcaggac aagtgtttca nttgaagctt catttggttt 360  
ggagtctctt cctcytctga gccwacaaag ctcggtcca cgggtactct gscaaaattc 420  
atcatcttag ttaggcattt ggcagaatag gtgaggcagg gatgaatctt taacaaatgt 480  
taatgttgct ttgctgggaa tgtgcagagg ggcattccaag atgagcacac atttaaaagt 540  
aaacacatga ataagtggca gtagaattta ttttgcaact ctgagtgtta cagtgtctac 600  
tgaattcagt gtattccacg ttctttattac aactaaagac tgggtagaac ggacttctct 660  
taactatgca aagggaaaat ccaagacaag attccgcagg ctgctggtga aaaggggtgt 720  
tatcatgcag atgtcatctt aacagattag cagaggggag tggaaatgtt cgaggatgtt 780  
caatgccmcg ttgttggttw trgcaaamcc actggaaaca mcacaggagt ctaaaaatag 840  
aggcctggta gggaaaatgg tacagctacg gaatgcaata ctattgaagc attagaamca 900  
atgagcttct gacagcccca gagagttatt cataatgtgt agttaattta aaaaagaaag 960  
tcgagagtca gactctacaa gggcataata cgccattttg gtaaagaaaa tgtgtatgta 1020  
gatattgtaa tagatttggg tacgaattat tgtatatacg aaggaagagt gccaaagcct 1080  
acataccacg cttttaatag tttttaatct tcgttattaa agaaagattg agggagatgg 1140  
gatttctgtt tttattttat acaaactctgc attgtttgaa tttttttttt ttttacgaca 1200  
agctgttatt tctctgggga gtttaaaaaa aatacaaaaa aaaggggaatt cgatatcaag 1260  
cttatcgata ccgtcgacct cga 1283

<210> 81  
<211> 708  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (40)  
<223> n equals a,t,g, or c

<400> 81  
aggccaggcc tccacagacc cccatggccc ccaggggacgn agggggaggac agagcccttc 60  
agaacagagg cctcatctca ctgcatcccc catcaccccc tagttcccca atggctctaa 120  
tttgtgttct gagatcccag tttactccgt ggccaggccc cacctgtgtt tccaagtcgg 180  
gctggagacg caggatgggg taggccttgt gctctgagca accccagctc tgcctcacag 240  
gcaggcaggc ccggtgcaag agtggactct gggttcctaa agcaataaat gcaaacaagc 300  
caacagctct gctgcctagc aatttccatc ttagccacac ttctcccttc aggggcttcg 360  
gaggagaggt cagggtctaa gccgggggatg agactgcagg agagagagca gcggaggggc 420  
acattcggag cctccgtcca ctccagtttt atcagctttt gccttttgca cggagtgtta 480  
aacaatttct agctctgtgt ttttttccca ttcccagatt tactatcagt tctctttaa 540  
aagtatctaa gctgttacag tagctttccc ttcaattgat tctatttgtt gttttctatg 600  
tttggataaa ttacacccaa atatctagat attttctctt caccgcattt tgtaaataaa 660  
gagatgtgta tgccaaaaaa aaaaaaaaaa aaaaaaaagg gcggccgc 708

<210> 82  
<211> 1464  
<212> DNA  
<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (132)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (887)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (889)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 82

gactgtgctt	gcagnaagag	taaacactct	cggatgccgc	tgtcctgggg	gagcccgagg	60
gangctgtga	atgttgatac	gagctggcca	gtcctggggc	cagctcactt	gtccagctac	120
ctgccagggtg	gnnttcactg	tgtttaaaat	acattgcatt	ccaagctggt	cccctctgtg	180
tatcactcta	ctgagaaatc	ctgcctagt	tgttttgga	tgtgtcctag	catttacaag	240
aaaatgaaaa	gcgtcctctt	aattggcacc	cgaatgttgc	tgtggctcag	tcacatatcc	300
qagggccctc	gtcccgaggc	cgtgctgccc	cgagccccga	gcccctctgc	agctcaccct	360
tggcctgttt	tccgcaaacc	cggtaaaccg	aagcccttgg	ggcagatgca	gaagcagaag	420
agggagggga	aacctgcctc	tgggtcaccc	tgttagcaca	gcgttctcat	cgggagacag	480
catggaactc	tctctcgag	tgtctgaggg	tgtgtgtcag	tgtttgctgg	gcttgtggct	540
ccttttttgg	ctggataaag	aagtgcgtgt	ttttgtactg	cttctgtggc	tcttcacaga	600
cctcacggat	gtgaccggag	atgagtgccg	atgaccacgt	tttaaaggag	aaagagagct	660
cctggtgggg	ccctcggggt	ggtctcaggt	cacatttgca	gtctgcaaca	gtgacgcgca	720
cccggctccag	agcgtgggtga	gctttgtttg	ccttctgggt	cggttttcgc	tgtgtctcct	780
gtgtgtgtta	gaatccagag	cccagaggaa	gtgcaagcgg	gtcctccgcc	aacggggaga	840
gcctcttcgc	ggcgtgtttg	gcgacamagc	gctgtgaatt	cgcgtnang	gggagttgtt	900
tgaaacacct	tcttgagtag	tccggccttg	tcaatgagtg	cttgttttcc	tttaaacagt	960
ctgacatatt	tactcgtcac	tttcaaacca	gaagcatgaa	aggaaggaga	tattgtgggg	1020
tccgttttaac	tcgatagaaa	gcgcaggggg	atggcccccg	gcgcaggctc	ttgaccgcgt	1080
cagcgttgac	cccaccgccc	tggccgaggc	acttggcctt	gctgagctgg	acttccctct	1140
cctcctctct	atgaccgggg	tgaattagaa	cgtttttaaa	gacaccccct	tccaaattct	1200
gtaacacatt	gtaattggag	aagaaggaaa	ctctgcaagg	ctaaactgtc	attcacaact	1260
tggctacaca	tagactctag	tcagttttgt	ctccagaacc	ttaggctttt	gtatttttta	1320
atttttaattt	cactgttaat	ccttattgtc	ttttttatta	agatgtttga	aaagcaggag	1380
gtagtgtgtc	ctcaattatt	gcaaaaatgt	aacaataaag	ttcctcaaaa	taaaaaaaaa	1440
aaaaaaaaaa	aaaaaaaaaa	aaat				1464

&lt;210&gt; 83

&lt;211&gt; 616

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 83

tcgacccacg	cgtccgggtca	aaatagtggg	aaattagtag	aaataacata	ttttatatcc	60
aatttagtct	ccaaaatccc	aacatgcact	cttctgtata	cgtttttcag	tatgcttgac	120
tggaacggcc	aattctacag	tagtcttgga	agcaacatac	tcgagattaa	ataccttagt	180
agcctatgtt	cttgaatgag	gacataaagg	agcaatgctt	ttcctatctt	aaaaaaacag	240
tttatatgaa	tgaaaacttct	gttctgttta	agatattata	tgttggtgag	tgtagttgtc	300
aaagcaacta	gcacgattcc	aagtaataata	gaaatcacca	gcttgagttg	ggctctgccat	360
aacagcacct	aaaacgtatc	cactaaatta	gtattaaatg	gacaagtaaa	ccaaactcag	420
aggggtgaaa	tgaagacttg	taatacccag	tgaaaaaaaa	ttattgaaac	taccatctaa	480
aattaattgg	aagcttaata	ttacctctag	gaaagagtgt	gggaaatgag	gaaagggcaa	540
aaggtaatgt	gttccagttt	gttctgttcc	ataatcccag	gaaatagata	aacaccaggc	600
aaaaaaaaaa	aaaaaa					616

&lt;210&gt; 84

&lt;211&gt; 928

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (916')

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (917)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 84

aaaacaaaaag	gagacgaagg	acgcatgcgt	ttggtgagtc	ccggattctg	gtgggttctt	60
ccgctcaggc	tggttgaagc	gcttcgggtt	cgccgcgggc	agcagcctcc	cggcgcgatg	120
aagacactga	ggctcagaga	ggttaagtga	ctcagccaag	gtcaaacagc	tagtaagtgg	180
tggagccagg	actcaaagcc	agtctaggag	ccatgtccac	tttgttcccc	tcactcttcc	240
ctcgtgtgac	tgagactctg	tggttttaatc	tggatcgacc	ctgtgtggaa	gagacagagc	300
tgcagcagca	ggaacagcag	catcaggcct	ggctccaaag	catcgaggag	aaagacaaca	360
acctgggttc	tattggcaag	ccagcctcag	agcactatga	tgacgaggaa	gaagaggatg	420
atgaagatga	tgaggatagt	gaagaggact	cagaggatga	tgaggatatg	caggacatgg	480
acgagatgaa	tgactacaat	gagtcaccgg	atgatggaga	ggtcaatgag	gtggacatgg	540
aaggcaacga	acaggatcag	gaccagtggg	tgatctaggt	agacaaggca	gggtggcctc	600
agggagattc	caggccagcc	caaactaccc	tgcattccaa	cccccaaccc	ctgcccacag	660
aaccagctga	tgccccagct	gcctgaaagt	gcccttgggc	acctcctcag	ctgctgccag	720
gatctgggtc	ctttggcccc	tcccaggcca	tcagtctgca	cttgaaatcc	ccagggcctg	780
aaacctactc	caccttcctg	gccagtacct	cacctcttga	ttgccaggtc	tggctctaagt	840
ttctttaata	aagacaaagg	agtgattttc	caaaaaaaaa	aaaaaaaaaa	aaaaaaactc	900
ggggggggcc	cggaannaat	ttccccca				928

&lt;210&gt; 85

&lt;211&gt; 723

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (722)

&lt;223&gt; n equals a,t,g, or c

<400> 85  
 tattgtagtt agaaccatct gacacatagc ttttattcca ttgggtttttt gttatgtctt 60  
 tctttacaag aatttgaagt ccatcaggcc gggagttttg tttgttgtgt ttgctgctat 120  
 ctcccagtgc ctaaaattgc ctggcataca gtaggcattt aataatcttt gaatcagtga 180  
 aaaccagatg gtggcttggc atttccacat aggaatgagc cagggtggaaa tcatccagga 240  
 tataagtaga tcttgaagtg ataaggaagg gtcatacata tcatgtgggg cccattttgc 300  
 cctttcttgt ttcttttctc taggctcagc aacagcctca ccaaggactc catgaatatc 360  
 aaagcccata tccacatggt gctagagggt agagcagctc accccactac cagactctgt 420  
 gtttaggggt gtgacctgaa gaaggaagag agcgaaagaa ggggaaggacc atctttccct 480  
 ctaaaactgga gtcaagggag ggagggtcaga gcaagcctgg gggcgtaacc cagacccagt 540  
 ctttgttcaa tctcttctgt cctctttttc aggggcttag agaactacaa ggctgcaga 600  
 atttcccaga gaagcctcac cattgacttc ttcccccat cctcagacat taaagagcct 660  
 gaatgccttt gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 720  
 ang 723

<210> 86  
 <211> 570  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (6)  
 <223> n equals a,t,g, or c

<400> 86  
 gaattncgca cgagctcgtg ccgtttcatt ctgttttagaa gttcatgttc atcttagcca 60  
 tttggaaactt cttcattctc tatcttttct ccacgggtggc tgggcttgct tgcaaatcat 120  
 tgtgtcaaaa tcaaaactatt ttcaaaacag ccttttgctt ctgagccctt cccctaagtc 180  
 ctctgtgggg gtccatgatt ctgcagaggt atgggacaga atcttcagat ttaccctt 240  
 gagtctcttc ctagtcatat cctgggttccc tcattctaatt attgacaaaag gatgactcat 300  
 taagtgaac tggttatgta actttcaaat actttcattg tgtatgtcag gatctgagga 360  
 acaaaatgat gtcatttaaat cggaatctaa atgtgacaca aacaacgtgc cagcaatacc 420  
 tgcttgtagaa ataattgtct gagccacag tggtcctggg tatgtgagtt tatatcaagt 480  
 gaaaaggctg cttaattgac attaaagttt tggaaatgtaa agcttcaaaa aaaaaaaaaa 540  
 aaaaaaaaaa aaaaaaaaaa aaactcgtag 570

<210> 87  
 <211> 639  
 <212> DNA  
 <213> Homo sapiens

<400> 87  
 gaaaaaatgc tagggagaca aaatcaaagt ttaaggggct gggctctcag cacattcttg 60  
 gtttgcatte tccagtgggt cagaagcctg acaatccgcc tagcctctgc tttgagcgctc 120  
 aggggaccca gttctattcc tgcattctta gccatcatct acacactttt tatcttttct 180  
 tttaaatttt taaaaattgt gaaatctata tacatataag ccatatgttc aacttaaaga 240  
 atagtaaaca actgtgtccc taggatccaa gttaagaaat agatcagagt cagtttctta 300  
 gaagcttcta tatgtgtctc tccccagtca tgtgtctctc tgtctctacc tgaggggaaat 360  
 tacagatttc atgttttctt ttatagtttt cctttacaca cataccctta agcctctaag 420  
 tactatatgg ttcggttttg caaagcccag aagcctatct taatgctgta tataagaata 480  
 tgctagccgg gtatgggtgac tcatacctgt aatcccagca ctttcagagg ctgtggcagg 540  
 agggttgctg aagcctagga attcaagacc agcctgggca atatagggag accccttcac 600  
 tacaaaataa aaaattaaaa aaaaaaaaaa agggcgggcc 639

<210> 88  
 <211> 708  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (14)  
 <223> n equals a,t,g, or c

<400> 88

tacggacacg	aggncgaaaa	tgagaaaggt	aacaatttctg	aaaaagcatg	cccttctgct	60
gtgtttccag	ttgttttagat	gtctgctctc	catgtatata	tggatcacat	tcgtgttaga	120
tggaagtgtg	ggaatccact	gttctctcaa	accggtctct	ttcccttgta	cctatcatag	180
tgtacatagc	tcaacttcct	gagtttgatt	ctagtgttca	aagataggta	tttttcatat	240
aagatgtcct	gtcaaagcaa	gtcattgaac	ttacctggta	tttaactgaa	aacaaacaaa	300
aatcagcaat	ctcttccatt	gcttgtagaa	atactgactt	aggccaggca	cagtggctca	360
cgtctaatec	cagcactttg	agaggccaag	gcaggagtat	catttgagcc	caggagtctg	420
agaccagcct	ggcaacatag	tgagaccttg	tctctgtaaa	aaggaaggaa	ggaaggggag	480
gagggagggg	tggagccaga	ggaggggagg	ggacactctg	ttatacttat	cgaaagggtg	540
tatccaggtg	tggtagtgca	gccgatagtc	tcagctactc	aggaggctga	ggtggggagga	600
tcacttgagc	tcaggagttt	gaggctgcag	tgagctatga	tggtaccatg	tactccagcc	660
tgggcaacag	agacagacca	gactcctaaa	aaaaaaaaaa	aaaaaaaaaa		708

<210> 89  
 <211> 949  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (55)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (508)  
 <223> n equals a,t,g, or c

<400> 89

catgataacc	ccaactcgaa	taaccttcac	taaagggaca	aaagctggag	ctccnccgcg	60
gtgccgccgc	tctagaatta	gtggatcccc	cgggctgcag	gaattcgscg	cgaggttgtg	120
tgtgtgtgtt	gcttgggtgt	ttgtctcctt	tgtaatggtc	gtgggtgaca	agtgtgtcag	180
agtacttgtc	cctcctatat	gtgtatctat	gcgcacgtat	ctttctttgt	gtgtctgctg	240
ctgtatttgt	gtctcttctt	agcgagtggc	tgcaggatat	tgtgccctcg	gggtgtttct	300
tctgggtgcc	tggtatgagt	actatctggt	tctcttggtt	tttctctgtg	tagctttcag	360
tgtgggtttct	ggattttttc	tttgcaacga	tagtaagcgt	actctgcatt	cctgtgcttt	420
gtgttttgtg	gcaggatat	gctttcccta	tatgtttctt	ttctgacttg	atttgtgact	480
agctgtgtgt	gtacacggct	gtgtgcance	atgtgtctga	atgcagttgt	gtgtgtgtgt	540
gtgtgttgaga	gagagagaga	gaggagagag	agagagaagg	agactatggc	ttttctgttt	600
gkmcaaarrr	catgtsagcc	tatgagtggc	tctctctgtg	actggagctg	tatgtgggta	660
catgtgggtca	caagtgcaca	ttcaagttca	catacacaga	gatatcattt	tagggcttga	720
acctggaagt	ttgcctccag	ggcatctga	acctggattc	agggttcagat	ccagggccat	780
ctgaacctgg	atcgtgtgtg	tgggaaagac	ccaggacceca	cacacaatgt	cakcagctgt	840
gtgtaattgt	gtgctctgtg	tgtggctgtg	aatctgtgtg	tgtgatttgc	ctgttgattg	900
tctttggcat	ggctgtgggt	ccacgggcgg	tgaggttcag	gagtctcga		949



<210> 90  
<211> 1171  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (291)  
<223> n equals a,t,g, or c

<400> 90  
gaattcggca cgagcctctc cagtgccttat gtaaagaaat gaaagtattc agggaaagct 60  
gtgctttgtt ggaggaccgc gttgtggatt tggccacett gtcacttgaa gtcgtgtag 120  
gggtgcttca gcaggatgtg gccggatgcc tttcatgatg atgctgcaca gmaaactggt 180  
gctcttttstg gaagctttgt ggtactacgg tgggggggct ttcctttgct gtgccgggctc 240  
tgtacctact gactgttatt ttgggggggct ggaccaaaga agacttgcca ntgataaatg 300  
tactgagaag agcacaggac tcctttaagt ctcaagggtgc tctggggctta gttcttctga 360  
gcagggaaac cagaggctgg cgttctgttt tctttktgta aaatggaaaa atacctgcca 420  
ttgccactta actaagtcac tgaagagatc atgtgcatgg aagatgtaaa acagtatgcc 480  
tctttataag taagggtggca ttattacttg agctgggtgga aggcagcacg tttcccacaa 540  
ttgggtctcaa aagcccggga tgcctgctga gttgccattt agtttattac cttagcaaaag 600  
cagagttggg ggtgcgattg tcgatagtag gctttgggag aaatgatkgg tatatttctg 660  
aataaatgat gtctttgaga aactcataag ttgcaatgta atcctgtctt aattgtgttg 720  
ggcacractc ccaactgcaat acccttaata actgaaaaca tttgcctttg aaagcccaaa 780  
tcgacttgga caataaaaac agttgcatgt tttgctctag agatattttc tgccgtttcc 840  
atcattccac tgcctgggta ttcctagggg gaataacaga taggatactg gggcttcacc 900  
actatttgat caggtatcag tttgaaatag agaactctct ccttatgaag atagtaattc 960  
ctgtagttag catgaaaaca aattgccagt ttgattttct aggacagctc aagcagaatt 1020  
tgtaccacta ggctgtaagt ttttaagtatc taattttctg atttgaaagt gtatgattta 1080  
aaaattggaa aaagtttttg ttataagctt caaaaggatt tactataatt acaatacgta 1140  
aaattacaaa aaaaaaaaaa aaaaactcga g 1171

<210> 91  
<211> 1151  
<212> DNA  
<213> Homo sapiens

<400> 91  
ggcacgagtg tcaatgaaaag tgtttctaata gcaactgcga ttgactccca gatagctaga 60  
agtttgcaca tcccactcac ccaggatata gctgggtgacc caagctatga aattagcaaa 120  
cagagactca gtattgtcat tggcgtgggt gctggcatta tgacgggtgat tctaatactc 180  
ttaattgtag tgatggcaag gtactgcagg tccaaaaata aaaatggcta tgaagccggc 240  
aaaaaagatc acgaagactt ttttacaccc caacagcatg acaaatactaa aaagcctaaa 300  
aaggacaaga aaaacaaaaa atctaagcag cctctctaca gcagcattgt cactgtggag 360  
gcttctaagc caaatggaca gaggtatgat agtgtcaatg agaagctgtc agacagcca 420  
agcatggggc gatacaggtc cgtaaatggt gggcccgga gtcctgacct ggcaaggcat 480  
tacaaatcta gttccccatt gctactgtt cagcttcac ccagtcacc aactgcagga 540  
aaaaaacacc aggcctgaca agatctacca ccagccaaca catttgtggg agcaggagac 600  
aacatttcaa ttggatcaga tcaactgctc gagtacagct gtcaaaccac taacaagtac 660  
agcaaacaga tgcgtctaca tccatacatt actgtgtttg gctgaattcc actctaatat 720  
gatgtctcat ttggcaccat actgtgatga cctttctact ccgaaacctg ctggagcctg 780  
cccttggccg tgggggtgtc gccaatcact gcttgttcca cttgtgtgac attttatttt 840  
tgagtctttt tctttctcat atacagaaaa atagtatgaa aataaaaata atgtatgaaa 900  
cagtattaat gcagaaatgt gctactaatg gatgtctgag tcaccagaaa ttccattctt 960  
aaagaggcgg ttagcaccta ttagacgtaa cagtgtgtc ttttaaaaaa tccaaaagca 1020

tattgcaaca ataagtttga gacttttgtgt gaacaaaggg aaattcagcc tcttatgtct 1080  
ttgtcttttaa tacattaaat actgattttg aataaaaaatc taaattgatc aataaaaaaa 1140  
aaaaaaaaaa a 1151

&lt;210&gt; 92

&lt;211&gt; 714

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 92

ggcacgagta atgcttctgt ttctccctact atatgcatat gtatgtgtgg gtacgtgcac 60  
atttggtttt ttatttggtt gtgtgtctat ctgaaagtcc tgcagggcag cgcttgccct 120  
tggattgctg ctgcagtggg gatgagaagg atgaggaaag tgcaggaaaa aggggagggtg 180  
ttcaggaaca tggcggccac ctgggccctt cgttctggca taaaaagcct gaattctctt 240  
gttagctctg ccttttttac tattttcatg accttgggct cttcttggaa cctcattgtc 300  
tcactttcct cattgggtaa ttggaccggg ctcttttctt tctacttctc aagaaactga 360  
tgaggattaa tgagatagaa tctggagccc gttttgtgtt aaaaagagtt aagggatgct 420  
agaagacgga gttaatgtca tagagaaggg gaacacacat tgcttaccgt gtgatgtgat 480  
agagtctcag ggagcacttc tctttcaact gttaactgtt aactagtgg gcagggtggca 540  
gcctcatttc tatttgtgtc tgaagtggat gacatgttag tgcaggatga taggaagtca 600  
aaccaaatgc agggactggg ggaatgacga gtcaagattc atgggggaac atctagcctt 660  
ctgcattgct acctgaaaga aacttagcta tttaaaaaaa aaaaaaaaaa aaaa 714

&lt;210&gt; 93

&lt;211&gt; 810

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 93

ggcacgagtc ctgcctcatt tttctgtggg cctcatttgg tatgcaagga aataagccaa 60  
acagcctgaa agtccagtag aagtgcacgc cagacatccc agtcctccct gtagggtttt 120  
ctcagaactg ttcccttaag gtctcaggct gctggaaggg agggctgata gcagaaaaag 180  
tggggacact gggaactcca aagggaagac gcgcattggc tgaaaccgag ttctttcgtc 240  
ttctggagcc tgggtctccct atgtggaggg tcatgctggc atggctggca atggttaatt 300  
caccgatggc catggagtcc caagttaggc atattattgc ggtaaaagat acattaaccc 360  
agatgacctt gccggggggc agaataagagc ccgtgaggaa ggagagcaag gcaggatcgg 420  
ccgggaagcg agagggattt tgttgaggag caaggctctc cacaggaact gcgacttgga 480  
aagtattcac caagggctgt gccatgagaa accctcttta aaggaaaccgc atcgtagcgc 540  
taacgggcat ttctttttta atgtaatggg tcagagctat tgtctaccac gcctcgcggtg 600  
cacacgcaca cacacgcaag ttccctcagt cagccgagaa tcctgccatc tcttttagat 660  
aacaaaagct cttaggcctt atgctttggg taggatttgt cttccatgga caggatttca 720  
gttggaaca agtatatagt cactgcctct atggtatgga gatactccga tttagtcctt 780  
ctgcctcttg gggaaaaaaaa aaaaaaaaaa 810

&lt;210&gt; 94

&lt;211&gt; 1176

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (569)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 94

ggcacgagtg	agcttgagga	tgatatctat	aaagccagcc	aatattaatt	acatcttcaa	60
gtgaaagtac	attacccgcc	tccctgcagt	tttaacccta	tacagtggaa	gtgtagcctt	120
tccttcttcc	aggaattgtt	agcataaatc	ctgacagttc	cagacagtat	ggaaggatcc	180
cagtagatag	ggaaaagatc	cccactcgaa	ggccaagcc	tagtgggata	cctttcctgg	240
gcacatggtg	ccaagagatg	acttaaatat	ctacaaccac	ttgtcagctc	agtttttttg	300
gggactactc	cagaggtgtt	ccctcacaga	ggcagtggta	gaaaaagtaa	ggtagaaaaa	360
agcagtaaga	cagggatgtt	tggacaaggc	actcattcat	aagaaaggaa	tgatagcaga	420
ttggatgttt	tttgtttatg	ccttatgtat	tgacgttact	gccaatgaat	tttgccttac	480
actgaccttt	ttaacgtcaa	aagtgtcaaa	atagatttgt	tgttgttgca	gttttgtaat	540
gggcgggtgg	tattattaat	ccgggatgna	ggctggattt	attttttatt	ttaatttttt	600
ggcttggctg	acctggaaga	tctactagct	ctctgccctc	acgggtccaag	gtgtgttctt	660
ccccactga	cagttgggct	gctgatggct	cccttttaat	tcccatcagc	tgagggtctga	720
ctcagtcaac	atcttctccc	catcctggac	cccaagaata	caggaaaaag	gctcagagac	780
ttagcacatt	atttttgttt	taagatgtca	gcacctgag	tattatttta	gtgcttggtt	840
aaataattctg	aaactgtgtt	ttcttttttc	ctttaattta	aatttgctt	cataaagtgt	900
gcttacaga	acatttcttt	atcaagttta	tctggatttt	ctgggtcaaa	agtataagt	960
atctctggac	ttttcttgac	aaaaagtacc	aagaaaagct	gcattaaaac	aacaaatcta	1020
attttaaaaa	cacttagtga	gctaaaacgc	agactcaaac	caaactaatg	aaagctattt	1080
aagagaagtc	agttgaagta	gtttccagaa	tttatttcat	tgttttttca	actctttgtt	1140
aacaccataa	acgtgaatta	aaaaaaaaaa	aaaaaa			1176

&lt;210&gt; 95

&lt;211&gt; 1028

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 95

gcatgacct	gtggaacaca	gtttgggagc	atagatgtga	attaagacac	caccgagata	60
cgggctgtga	ggttcatacc	gtgctgatag	cactcgtggt	gtctgtgaaa	tgtgggtaag	120
acattcaaac	ctggttttga	tactggaaac	tcttccttta	aaactgtgac	catgatttca	180
ttcagcccc	ccacacccct	atgtctgcct	tgtttcagag	tgagttttct	atggagcctg	240
tggccctttt	gcagcccacc	tgggtggctt	ttaatgtaac	tcttcccctg	gtcgcctgga	300
gtggaccact	catctgcagg	cctctcctgc	atggggaggg	taggcaggga	gcagcatgtc	360
tgcaggggtg	aacctttgct	cttctgtcag	gcgaggccca	ggctgcacca	gccacctgcc	420
acatggtgac	agtgccacgg	gcoctgcgta	tggcccctgc	aaccgtgctc	tggcgggcac	480
acctggctgc	tgcaggccaa	ggccgctgtt	cagtgaagag	tcccatgttt	agtatggact	540
aaagtcccat	gttttagccay	tgccccagtc	tcccgtgacc	ccagaaacca	ggctcactgga	600
ccacagtgcc	agatcctcat	cacgcccgtg	agcacctaga	agtgagaaca	ctgtattcct	660
acaatgtaca	cttggatatt	tctccttatt	tagtttctag	tgaaacaaat	caagtaagga	720
actatcttta	gttttagatg	aattatttgt	ttttaattgt	tgccgtattc	atctatatag	780
ctaataatttc	aagataagta	atgaacaaaa	cctgtctaaa	ccttttggtt	ccaatgaatg	840
aaagtcatgc	actttattta	taggctctat	gttttggtt	ctgcagtact	tttattatct	900
atacataatt	tggccaaaaa	taagaaattg	gaaagaatga	aatgtttagt	ttatagtaga	960
agaaagatga	tgacactaag	ttgtgaaaat	atgttgtgat	ttttatgaaa	taaactcacg	1020
gcacgtag						1028

&lt;210&gt; 96

&lt;211&gt; 747

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (605)

&lt;223&gt; n equals a,t,g, or c

<220>  
<221> SITE  
<222> (642)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (645)  
<223> n equals a,t,g, or c

<400> 96  
tcgacccacg cgctcgcacca aaggaatcct gagtatgtat gcacttttaa agaaccacaga 60  
atcatctaaa tattgtcaca tggctcttgc aagtgtatgat aatagtgtatg cttataataa 120  
tgaggattag ctgcactcat cagcctgtag aaagtaaaaa gtttcctttt cgaaatttcc 180  
tttcttggtta agaataaaatc ataagtgtta gaaataatag tttcttttaa agactaactt 240  
ccttcaagcc ttctctgctc tgtgctaata actcttcgtt aagccctatc ctatgtagct 300  
gttagatata aggggaataag tatattctat gtctctgact ttagccaaga tatttgtgct 360  
ggacatgctc acaggcacgt tccagctggc agcctatgcc ccttccttat ttggaaatat 420  
tattactttt ctaagtcttt ttgcaagcaa cttcttcttt tcctttgttc tctgttgctt 480  
ttccctatat aggaaagttt taagttatta gccagtcggg ttttaatttaa attgtgaggt 540  
ccagctccag ccaatggaga caggacacaa gctgcataag ggataaaaaac tgcttccttc 600  
ctttnttcgg gtgtgctgtc accattgttt catctgtgag gngcncctt tctgccagaa 660  
agtaaaattg ccttgctgaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 720  
aaaaaaaaaa aaaaaaaaaa aaaaaaa 747

<210> 97  
<211> 628  
<212> DNA  
<213> Homo sapiens

<400> 97  
cggcacgagt atatatatat tttttaatat atatataaaa agacttttag atagaattct 60  
catattctga tgacctatca cgttgtttgt gcatttttaa tcgtggtgct aaagaaacag 120  
tttatactag ctctgcagac ttttcaaca tcaactcagga gcaaacaaat tcttatgggt 180  
ttaagcagta ctattattgc agattcaacc ttttattatt aataacttaa aacagggaaa 240  
aggttataag atgtggagct cattggagag taaaattaaa ccaacaaaaa ggatatgaca 300  
aagtacaarg gaaaacaaaa ccaaaaaact tcatgtatcc caaaaaatta attttgccga 360  
taaagtcttt aaaagtgggc aaaaaaggag gtttctcagt agaattattc gcaactaaag 420  
gcaaatggaa aactctcaca tagcatttaa taagggttta catgcaatat atcccactat 480  
cccaagaaat atctgcagtt caaagctgct ttttaaatata atgcttccta gtgtttgctg 540  
tttataaatc ctaaataatta aagggtgagt tccttaataa tactattcta ataagtacta 600  
agacttttct aaaaaaaaaa aaaaaaa 628

<210> 98  
<211> 904  
<212> DNA  
<213> Homo sapiens

<400> 98  
ggcacgagat cgtcttgtga caagacttgc tgagaagcac cttaaaattc actgtgagcc 60  
acattttgtc ttttactgtc tcatcgata gggtagatca atgtccttta ctgtagcaga 120  
gactctctca tgggcaggac catcatggaa agttctgact acatcaagaa aggcgccaat 180  
gtctcacctg tgcttgggggt caggcagcag gctgtgatgc cgggtgcctct ctggttggtta 240  
ctgtgggttct gcttcctgtt atatgtagcc tcacgaagga cctttggatt agccaattac 300  
atgcccctac cctgagcttc ttcccagct ctttgacttc ctggacattg gtgaatatcc 360  
tgaataagca aaagggataa aattcataga aatatggttg caaaaatata caacttcagc 420

ccagttctttt	gggtccatgt	tggttaaggag	tccagttggc	aagacaagct	gcccaggaa	480
gtgcctcaga	agtctgggtc	aaagaggagg	gccagatctg	ttctgtgaga	ccctatgtga	540
ttgttatatt	tttaaataat	atataattaa	gcaggacaaa	ttaaatactc	catggctttg	600
gggaaattgt	tgcttttaaag	tcctggaatg	gggctgggca	cggtggctca	tgccatttaa	660
tcccagcact	ttgggaagcc	aaagtgggtg	gatcacctga	ggtcaggagt	tcaagaccag	720
cctggccaac	atggcaaaac	cctgtccatg	gtggtgtgcg	aggctgaggc	aagaaaatcg	780
cttgaacccg	agaggcagag	gttgcagtga	cctgagattg	cgccactgca	ctccaacctg	840
ggtgacagaa	tgagactccg	tctcaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	900
aaaa						904

&lt;210&gt; 99

&lt;211&gt; 576

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (521)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (535)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (572)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (576)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 99

aaattccccg	gntcgaccca	cgcggtccggg	caacattccg	ttacatagag	aaatctatgt	60
aataagctgt	gtcataaacac	ccatcagttg	tatttatgat	ctttattaat	gtattttgtt	120
tttaagatct	tttttcagag	cctctgtgtg	ctgggttact	gtatacttcc	cttgacagta	180
gcaatgctga	tttgccggct	ggtacttttg	gctgatccag	gacctgtaaa	cttcatgggt	240
cggttttttg	tggtgattgt	gatgtttgcc	tggtctatag	ttggtaagta	tgtacttatt	300
tccacaataa	cagaacagac	aaaaacatga	tttaatgatg	aagaccagat	gaggagcagt	360
ataagtccaa	agtttagatg	gagtgatatg	attcttgata	gtattatcca	tagaaccctc	420
ttccctgagt	aggcaatgat	ggggcttatc	tgagttggat	atctggactt	ataagatgtg	480
gagagtcaca	tcktttttct	ttcttttaaaa	aaaaaaaaaa	nggcggccgc	tctanaggat	540
ccctcgaggg	cccaagctta	cgcggtggcat	gngacn			576

&lt;210&gt; 100

&lt;211&gt; 713

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 100

ggaagaggtg	caagcaaagg	ttttacgtat	gatcaatggt	tacttttagcg	gccctgggggt	60
gctaacgcct	ttggatgacc	aaggctcacc	ctgccctccg	gcaccttttg	ctgctcttca	120
cccttgccct	cacctgctg	gctcaggggt	gctgtgctgt	tgccccctca	ggctgtgccg	180
accttgccag	atthttgtca	ctggggccact	cctgctgacc	cttcaccatc	tgctctgtga	240
aacctctccg	agtgggtatag	gagttggaaa	catagtcctt	ggggccagac	ctttgggtgt	300
aaatccagtc	tttcttattt	ctagctgtga	ccttgggcaa	gttctgtgagc	cacttttgggt	360
gaccatttcc	tcctgaaaat	gaaactaatg	atagtgccta	cttcacaggt	aaataggagt	420
atgaaatgaa	ttcacatata	taaagcttct	agagcatctc	ttctcagtac	ccaacatcct	480
gattactaat	ttgcgggggg	tggcactctc	tcctcttttt	ctctgctctt	tgcaggtgct	540
gccaccacta	acaataaact	ataggggagga	gaaaccaggt	caattccctg	aaaagtctcc	600
agtgtgacca	gaagtacaga	taatatgtgt	ccattgtatt	aaagtcattc	tagggagtct	660
tagaagatta	gatgcatggt	ggttcctaca	gaggaaaaaa	aaaaaaaaaa	aaa	713

&lt;210&gt; 101

&lt;211&gt; 649

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 101

ggcacagggg	agtgtcaagc	gggcgctccc	ccatctccgc	cgctattacc	actgaaccgg	60
gacccccctac	ccagggtccag	ggccagccgc	catgacgaac	gtgtactcct	tggatgggat	120
tctgggtgttt	ggttttgctct	ttgtttgcac	ctgtgcctac	ttcaagaaag	tacctcgtct	180
caaaacctgg	ctgctatcag	agaagaaggg	tgtttgggggt	gtgttttaca	aagccgctgt	240
gattggaacc	aggctgcatg	ctgctgtggc	aattgcttgt	gttctaattg	cctttttacgt	300
cctgtttata	aaatgaattc	caaagcacc	aaagtcacaa	ctgccaacca	aggggacggg	360
gatgaagaac	ctgttggaga	cctgaaccca	gtgtaggaga	gttcagctga	aatcatcggt	420
ccccaggatg	acaccacagc	atctgcccc	gctatatgtg	gggaaaactc	atggtcacga	480
acattattta	tgcttcaggg	gactacagaa	agccagcttc	ctttgatcta	tgtgtaaatac	540
agtccttggc	agagtgcata	taatgtccgg	ataaattaca	ccctcgggtg	ataagattac	600
atacctcctt	cataaaaaacc	tgtaaaaaaa	aaaaaaaaaa	aaaaaaaaaa		649

&lt;210&gt; 102

&lt;211&gt; 697

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 102

gatttaggga	gggggctgtg	atgtaaaacg	tctccccctgc	caaaggagggt	gcaaagtgtct	60
gtgtcagttc	ctgtttcttc	ccattttcctg	gcacactctg	cccctctgtc	cgggggacac	120
gcgcattgtg	ttgccaggga	tggggccacc	gggttgatgc	caacgctccg	ggtgcctgtc	180
ttgtctgtgt	ggcttctcag	atgggtggagg	gtgctgggag	ctggcaggggt	ccttcagac	240
agtctcagcc	tctccccgcc	gcccccaaca	ggctgtcaaa	caaaaccgga	gagggggtgg	300
gggagccagc	ctcccagcgt	gctgtkcccc	caggcaccgg	tgtgacatcc	gcacgtccag	360
ctccgtgacc	tgtgtgtgtg	tgtgtgtgca	caagtgaagt	agagatttcg	aacgcccacc	420
cctcgacttt	gaaatctgag	caaaacaaga	aactgggggtc	ttctctctcc	ccgaacctct	480
ccccagctag	tcttccctct	gttcttccctg	cctccagccg	cccgcgccag	atthttgaaat	540
ctcggagaca	aaactagtag	tgtaagataa	atthttttgt	actgtattta	ttgtgtataa	600
cgattttttt	aaaggagaat	tctgtacatt	tagaactctt	gtaaatttaa	aaccgatcct	660
tttttttaaa	ctgtaaaaaa	aaaaaaaaaa	actcgag			697

&lt;210&gt; 103

&lt;211&gt; 1288

&lt;212&gt; DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (462)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (813)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (825)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (834)

<223> n equals a,t,g, or c

<400> 103

cgatgaaggg	gtacagggag	aaagattatt	taggatcctg	aggatcaatg	gagaaaaacc	60
atacaacttt	gttgattact	ttcactgtga	atacatgggc	tactacctca	accgggacct	120
cagagctact	ttcagcattc	tgttttccgt	agtttgcttg	ctcttcctgg	gttccatagt	180
gaactgtttt	ttaaatgatg	tcttcaagcc	actgacctt	aacttttcca	ccgcactctc	240
agcatggaga	aaagagtcac	cagcctggaa	ttcccttggg	ctcctaccac	caacagatga	300
atatcccaca	tgagcatcca	ccttcggccc	ctttcctagc	tcagtgggct	tccttcctat	360
tagtggtctg	ttttctattc	catttcagttc	ctacccttcc	tgcttgctca	gagtcctcac	420
accttatgta	actgattatc	ccctttwctg	tttttggcct	tngttttttt	gagacaagtt	480
ctcacctgt	ccccagggtta	gagtgtgggtg	gcataatcat	tgctcactgc	agccttgaac	540
tcctgggctc	aagcgatcct	cctacctcag	tctcctgagt	agctggaact	acaggggtat	600
gccaccttgc	ccagcttatt	tttcattttt	tacagctctt	cttttagggt	cagggatata	660
tgtgcagggt	tgttacatca	gtaaatgcat	gctgcaggag	cttgatgtac	agattatttt	720
gtcaccaagg	taataaacat	agtacctgat	aggtagtgtt	tgaataccct	ccctyctccc	780
accctccacc	ttcaagtagg	cctcactgtc	tgntrgtccc	cttcnttggt	tcctntatgta	840
ctcaaagttt	agctcccact	tataagttag	agtatgtggg	atttggtttt	ctgttcctgt	900
gttagtttgc	ttaagatatg	gcctccagat	ccaaccatgt	tgctgcaagg	acatgatctc	960
tgtcttttta	tggtacata	ggattccatt	gtctatacgt	accacctttt	aaaatccagt	1020
ctatcattga	tgggcattta	ggttaattcc	atgtctttgc	tatagtgaat	agtgtctcag	1080
tgaacatact	catgcacgtg	tctttatgtc	agaaacatat	ttaaactaaa	gagcttctgc	1140
acagcaaaat	aagctataac	agagtaaaca	gacaacctac	agaatgggaa	aaaatatttg	1200
caaactatgt	atccaacaaa	gatctaatat	ccagacgcta	taagggaact	aaacaaattt	1260
acaagcaaaa	aaaaaaaaaa	gggcggcc				1288

<210> 104

<211> 1027

<212> DNA

<213> Homo sapiens

<400> 104

gtccgcccac	gcgtccgtac	aatgtatggg	gtgtgtttgt	gtgtataggt	tttgataaat	60
tttaactttt	ttaaatagat	ttatgtatgg	tagtaaatga	tagactagta	tctacatgta	120
ttttatgtac	tcttcacata	cctttatttt	ttttgatatt	tctagtctat	gagggttcac	180
tggtttttca	aattgttgca	aatctccaaa	aaattttcca	atacatctat	tgaaaaaaaa	240
tccatgtata	agtggaccca	cacagttcaa	acccaagttg	ttcaaggatt	gactattttg	300

ctatctaaac	atacctaaac	atagraaaagg	tacagtaaaa	atacagtatt	ataatcttat	360
gggatcacca	ttgtctatgc	aggctgacat	tgaaatgtca	ttatgtacag	catgactgta	420
tagtgtttcc	gagttctgtg	aggctctcta	gcaaactaat	ggagctcaag	aaggggttat	480
gggaacccta	acttatagct	agttggttag	gacccttggt	caccatctgg	ggcttctgat	540
tgtcatctga	agtgggagcc	atcttgtggc	actgagcytt	caacctatgg	tatctgatgc	600
tatctccggt	agtgtaaagaa	gtgaattgaa	ttagaggaca	cccagctggt	gtctgctgca	660
aaattgctta	tttgcttaat	gcgtggggaa	ccccctcca	cacacatctg	gagtcagaaa	720
gggtgtttgtg	agattaaagt	gggagaaact	gaatttggtt	attcctatat	tcagaatggg	780
gtccttgara	acatcatagt	ggtaagcata	gatgttctaa	agtcagactg	cctgggttca	840
tctctctgct	ccaccacttc	gagagttact	ttagctcact	gtgcttcagt	ttcctattaa	900
attgggataa	taataccatc	tcatagagta	acttaagaat	taaatcagtt	aatatacata	960
aagcacttgg	aagtgtttga	agcattaata	aacactcaat	agctaaaaaa	aaaaaaaaag	1020
ggcggcc						1027

&lt;210&gt; 105

&lt;211&gt; 710

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 105

ggcacgagct	gggcctccag	gttcttcacc	tgtcacatga	tcattttaca	tattgtggtc	60
tgtttattta	ccatcagcat	catagaagag	caaaaagaag	aaatactgtg	ctccactaaa	120
agccaggctg	agaaaacagt	tactcacatt	gagcagtgag	tgaccactag	gtgggcattt	180
gttcatagct	gcatggagaa	caagtgccca	tatacatctt	tctgctgatg	cagcctctaa	240
attttgaatg	catcagtttt	ttaaactgca	ttgagcaata	ttccgtgggt	gtgatccata	300
atagcgtaac	tattttacgcc	tgtgacagag	aggaaaactg	tatggatatc	agatatcttt	360
aagagctttt	taatcttttaa	tcaagttagt	acttcttaag	gatgattaag	gccaggcagt	420
ggctcacacc	tgtaatccca	gcatttttggg	aggccaagat	gggtggatcc	cttaagggtca	480
agagttcaag	gccatccttg	ccaacatggt	gaaaccccat	ctctactaaa	aatacaaaaa	540
ttagctgggg	tgtggtggca	ggcgctgtga	accccagcta	ctcaagaggc	tgagacaaga	600
gaatcgcttg	aagccaggag	ttggagattg	cagtgaacca	agatcatgcc	acttcactcc	660
agcctggaca	gcagagtggg	acttcttctt	aaaaaaaaaa	aaaaaaaaaa		710

&lt;210&gt; 106

&lt;211&gt; 530

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (47)



<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (54)

<223> n equals a,t,g, or c

<400> 106

ttggccccc	tagggncctt	tngccaaaa	aggctatttt	agggngnccc	cctntagga	60
gggtaccccc	cttcagggtac	cggtcgccga	attcccgggg	tcgacccac	gsgtcgcgcc	120
cacgsgtccg	cttttggttg	gagaacagct	ggctaaggat	gactctaagt	gtactgtttg	180
catttccaat	tgggttaaag	tatttgaatt	taaaattttt	ctttttagct	ttgaaaatat	240
tttgggtgat	actttcattt	tgcacatcat	gcacatcatg	gtattcaggg	gctagagtga	300
tttttttcca	gattatctaa	agttggatgc	ccacactatg	aaagaaatat	ttgttttatt	360
tgccttatag	atatgctcaa	ggttactggg	cttgctacta	tttgtaactc	cttgaccatg	420
gaattatact	tgtttatctt	gttgctgcaa	tgagaaataa	atgaatgtat	gtattttggg	480
gcagacacct	gaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	gggcggccgc		530

<210> 107

<211> 392

<212> DNA

<213> Homo sapiens

<400> 107

tcgaccacag	cgctccgcca	cgcgtccgga	gggaacttaa	atgatattcc	ccttttcctt	60
ttccctaata	accttctctg	cagattttca	agtaggcaat	gataacagca	ggtgagatat	120
taggaactgt	gactacgaat	atgtagatgg	agatgtgcag	aaggatccag	agacttagag	180
caatgcttca	catgcttttg	gtaagcatgc	tccctactgt	gggtaaacca	aacatgtacc	240
aaccccccca	gaattatgat	attctactgc	agtaaccagc	ctcttctttt	aacatcagat	300
agctaaagga	cgttatcctc	aaagtcattg	aaaagcagga	agttttttcat	gacaaatcag	360
tttgccatag	tacagttaaa	aaaaaaaaaa	aa			392

<210> 108

<211> 991

<212> DNA

<213> Homo sapiens

<400> 108

ggcacgagga	attttgtcac	gtgagctgtt	gggttactga	gtgagtgaag	ttcactgtct	60
gcaattgagc	ccttttgagg	attcttaaaa	cttcagcctt	tttcagtcct	tccatctcat	120
tccccttaaa	gaaacacatt	tggactttgt	ctggctctct	ggtaaaccct	gtgacctgca	180
ttactagggc	acagtgcac	agaaaagaaa	gtgtgtgttt	ggtaaataat	tattgagcac	240
ctgcagtctt	atgttttagc	gtatgcatgg	tgcctgctct	tggaaagcaa	agcaaaccag	300
ttcatcagca	ggttttcttt	gcctgcatgt	scgtgcccc	gccttgagct	tgacacgaga	360
gaaatataaa	acatggccct	ggccttcctt	cattttaaaca	tttctytttc	ccaagcactt	420
actctgtgca	aggagctgga	gaagccaaa	ctggagaaaa	acaaaggagg	gcctgccttc	480
gagaagttag	tgggtctaag	ttgtggttct	caaaactcagg	cgtgcgtttg	aatcgtctgg	540
gggccttgcc	agaccacaga	acccatcccc	tgagtttctg	aatcaatggg	tctgaggttg	600
ggctcgctga	gaatttgcac	ctttataaat	tccagataat	ggtcttgccg	ctgggtaggc	660
accatggttt	aagaaccact	ggtctggccg	ggcgcggttg	ctcacgcctg	taatcccagc	720
acttcggggg	gccgagacgg	gcggatcacg	aggctcaggag	atcgagacca	tcctggctaa	780
cacggtgaaa	ccccgtctct	actaaaaata	caaaaattag	ccgggcgttg	tggcgcgcgc	840
ctgtagtccc	agctacacgg	gaggctgagg	caggagaatg	gcatgaacct	gggagggcga	900
gcttgacgtg	agtcgagatc	gcgccactgc	actccagcct	gggcgacaga	gcgaaatccg	960
tctcaaaaaa	aaaaaaaaaa	aaaactcgta	g			991

<210> 109  
<211> 912  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (896)  
<223> n equals a,t,g, or c

<400> 109  
gggtcgaccc acgcgtccgc ctcaaggtgc ctactttgct ggttcccttt ccagcagctc 60  
ccccacctcc cttagccccc cctcctctgg cagcctctcc tgcctctgct gagctccctc 120  
ccacgtgttc caccocctta ccctgctgtt gtttacatcc aacctgcctg agaatttcct 180  
ctggggagga atctattcct gtcattggtct agtgcctggg agggagagaa ctttctgggg 240  
gtaggggtgcc ctccatctga aacaggccag gtgagcatca tgcayaaggc ctccattctg 300  
tccgctcaga ttctgggtgg ggccacaggc aaatctcctg acttatgggg agttggcttg 360  
tggttcctcc cttggatagc ctccatggaa ccactatagg ctttcccaac agctgcctct 420  
gaaatagctg ctgcttcgag atcctccctt tttaaagcac tttctaaagc cctcaggatg 480  
gcgggagcra acagcactgg tatattctag gagtaagtgc aggaattcag cagtgaagagc 540  
atgtctggga ccacctggac tggcatccat ttaacctcaa atctctttgg gatactcgcc 600  
ctccctggga accagagttc tggctctaac attgagcagc tatgcactag ttccagagaa 660  
gccactaaca ggctgccatg tgtagatgta ggttcttaag agatcacagg ctgggtcatc 720  
tgatcactgg atggatagct cagcctgggg catttagtgt tttccctggg gataaatccc 780  
caagrcagct ggatttggag ctggtggcaa gttgaaatta ttaaaaattg atttgtgtgg 840  
gactgtcaaa aaaaaaaaaa aaaaaaaaaa aaaaaactcg aggggggggc cggtanccaa 900  
ttcgccctat ag 912

<210> 110  
<211> 875  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (66)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (872)  
<223> n equals a,t,g, or c

<400> 110  
ggcacagcgc gaggtctgggt cccggcccag gagaaggaag tgcgtgaagg cagtggccat 60  
gctggncgtg gaaatgggag gcggttgagc rgggtctatg gggcccggtc ctggatactc 120  
ggcaggaagc cgtgtctgca gaggtcctc cctgcctcag gtggcccctg tcaaccccag 180  
ccgtgcccct ctccctgccac cgcctgtcgg tgggggttta aattcgggtg ggctttctgg 240  
ggtgcagctc agcacccccc cttagtcaga ctgggagggg gtcgggcagt cccctcagcc 300  
acgaggaccc tggatgggtt ctagtctact tgggaccgtg gggcctggct gcgtactgag 360  
tgggtgcccc acagtcaagg ccaacggggg ctccccctgc tctgagatgt tgggagaaag 420  
gcggtctctg gaaccttccg tgggaccgtt aagtggctgt ccagaaaggc gggaggggtg 480  
gcacggggca cggggggcag ctggggctct cgttaagggc cacgcctccg tacagttgaa 540  
tttcctttct cttatcatgt tttaccacc ttgtcccttt tttccccaat tgtgcttttg 600  
catttttttc cttggcaaat gtaaactcag cttttcattc atgacgtgtg aaatttcagt 660  
ttctctggag tttgtcagac ggcgtgggaa ccacgcctga aactcaggta ataggaggaa 720

aaaaaaaaaa	cttaaaaaaaaa	ttttttaaaaa	acataaaaact	actctctacc	tctgctggsc	780
cagcctgtct	cgccctggcc	gcggcagggg	ggcctgtaac	aatttcagtt	ttcgcagaac	840
attcaggtat	taaaaggaaa	aaaaaaaaaa	anggg			875

&lt;210&gt; 111

&lt;211&gt; 459

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 111

gggtgagaga	gggaggtacc	agagtaaata	cagtgccact	tggatggtga	caccccat	60
ccttcagaca	caaagatgta	agctgagggg	aatgaattct	tggattcagg	gaaatgaatt	120
cttggattct	gaacatgagg	gtcagattta	cattcctgtc	tcaattgttg	acgcttatcc	180
caaggactag	tcattctgca	acatctgtgg	gaaattccca	gattgaactt	cccagggaga	240
aacatcatat	gacatattgg	gaaaatggct	gacaatgggt	ttccttagta	agttcattga	300
gaagaaaagt	gggaggatga	ttttcccagt	cttcactctt	tcagaagccc	ctaaaacaat	360
ctgacatgct	ctagttggag	cctgctttct	atcccatcag	tttgatttct	gaatgcctta	420
tgatcattag	cattcttcat	taaaaaaaaa	aaaaaaaaaa			459

&lt;210&gt; 112

&lt;211&gt; 609

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 112

ttctgttcat	ttttccccct	ttctccccca	cattcattaa	gaaccctact	gaaaccctag	60
gtgacaaaag	gtgtgccttc	tggtgccaca	tttgaccac	cacaggactc	actggactgg	120
acttctat	atatgggtatt	aagtaactga	tatatatata	tatatatakt	tttgattgac	180
acaaaaaat	taccttggca	caaatgccag	acctgtgaag	gtcagaggcc	cgctgcttyt	240
cccaggagg	aggggaacttt	ttgggtgtct	gtggcaattc	ctctgtacag	attgtaactt	300
tttaaaaaat	tccttccacc	ccgtcacttg	aatatatgtt	catagtaatt	tgtaagatac	360
ttcttttct	tatttttggt	gcaagaccct	tcgaacaca	ttcctgtata	aagtattttg	420
cactatttaa	agaaacccat	atggatgaag	tcaggatgtg	caatatgatg	gcgtcacagt	480
gctcatcggt	gtacctgtaa	tgtaactaat	cagtttaaat	gtactat	aaatatgtaa	540
aataaat	caccatgagc	atgttttaat	gaaaaaaaaa	aaaaaaaaaa	aaaaactcsa	600
ggggggggcc						609

&lt;210&gt; 113

&lt;211&gt; 1404

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 113

tacgagtttt	tttttttttt	tttttttaaa	ggagaggggtg	caatgatgct	ccctagctag	60
taagagttccc	atcttggcct	tctaagggaa	agataggttaa	atgaaaagac	tgctaaatcc	120
aaggtcagac	agcatataga	aggctttata	aaagaacagg	aaaactcaga	acactaaata	180
agagagtgtc	ttcttggact	ctgcagtttg	cctcaatcat	cggatctgga	atattacttt	240
ttacgatttt	gsaagccgat	acacacctgt	aagtaataac	tgaggaaggt	agagtatgat	300
tagtcttttt	acctttcagt	gtgtatcaat	gttaagtga	caagagcmaa	aggaaaacca	360
tatatttagt	atatttgaac	atatataaaa	taacaacact	gggctgggcg	tggtggytca	420
agcctgtawt	cccagcaytt	kgggagccga	ggcagggggga	tcacaagktc	aggagtttga	480
gaccagcctg	sccaacatag	tgaaaccccg	tttccactca	aaatacmaaa	aattagtcgg	540
gcgtgggtgat	gggcacctgt	aatcccagct	actcgggagg	ctgagggcatg	atgatcgctt	600
gaacctggga	ggcagaggtt	gtcgtgagcc	gagattttgc	cactgcacac	cagcccgga	660
aacagtgcga	gactccgtct	taacatgaaa	aacatgaaca	gccgctacta	tctgagggca	720

atTTTTtGtc	tttatacttt	ggcatgtata	ttattttctac	aaataatttt	aaaggccagg	780
tgcgggtggct	cacgcctgta	atctcagcac	tttgggaggc	cgagggtgggc	ggatcacgag	840
gtcaggagat	cgagaccatc	ctggccaaca	cagtgaacc	ctgtctccac	taaaaaacac	900
aaaaaattas	ccagggtgtt	ggtggcgggc	acctgcagtc	ccagctastc	aggagtctga	960
ggcaggagaa	tggcatgaac	ccgggaggcg	gagcttgag	tgagccaaga	tggcgccact	1020
gagctccagc	ctgggcaaca	gagcgagact	atgtctcaaa	atagtaataa	taataatttt	1080
aaaataaggg	ggaaaaaatc	actgataaac	caaaaacctc	aaccttaaga	aacgttcaca	1140
tctgtatagc	taatactctg	acgatgggga	tacaaaaaca	ccttcactca	gtggctctgc	1200
agatatcatt	tttttccag	tattttttgg	aaagaaccaa	tctttgtctt	tttttctcct	1260
tcttcaggga	actttatgaa	tccagaaaga	gccaacgttt	gaatgattac	tgcaatctca	1320
catctattaa	atcctgatac	ctgcaaccaa	gagatgagta	ggagatgtgg	atcctaagag	1380
gtgacctgta	acatactgcc	ccct				1404

&lt;210&gt; 114

&lt;211&gt; 853

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 114

gggtcgaccc	acgcgtccgg	gtgaattaac	acgtacccaa	tggccaagag	tagatttggg	60
tgtcagtgat	aaaattttca	ttttcaaaaa	cctgggtgttc	tcagttacag	ctttatataa	120
gtatagtaat	aacttttagca	gagctgtaga	gagatagatt	tgcaaacttg	aagtgatatg	180
ggataaatct	ccatacgtgg	tagaatttta	tataaaatgg	catatttcaa	ggtatgtgtg	240
attatttggg	ttcagcaatt	ctgtgttgaa	gaaactagta	tcataaaaaa	tgttcgtatg	300
ctgacatcag	aattccagaa	ttcatatgcc	acccctgttt	ctgggctcct	tcctgggtgct	360
gtggccttga	gggtgtgtgc	tgtgtacggg	tgggtgaggc	acgccatgca	ggtattgcag	420
aagggaacca	cgcaaccgtc	atccttttcta	cccccaagtg	atgctgcctc	attctgggggt	480
cctgaaagta	ggcttcactt	aacatggtag	ggaagtttct	ggctgaaaaa	gcaaaaggct	540
tttatcactg	gagtcctatc	tgagccccct	gtgcaaaagg	cagtgtgaac	tcaggggaca	600
gaatcactga	agcttttcta	aaagcacaa	atctgcctat	cacagtccaa	aggggacttc	660
aaaatcaaga	atgtctgtga	cggagaagat	ggaaacagag	cctggctgat	ggtttaggtt	720
gaatcttctc	tgtgtcgaga	tgttatcagt	gaccgttttc	tttatttcat	gaagaaacat	780
ttttaatatata	ttcacctccc	tgcataatatt	ctgtttactg	tgttattgtt	aaaaaaaaaa	840
aaaaagggcg	gcc					853

&lt;210&gt; 115

&lt;211&gt; 845

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (845)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 115

aactagtga	tccccgggc	tgcagggaatt	cggcacgaat	ggatctgtgt	ggatgggtgtg	60
tgccttgggt	gtgtatgtmt	gtrtgtctgc	accactgca	gcagtaccca	agcctgcca	120
gggcaccatt	tgcttgaaga	tgttttctgg	tgccaactgt	gcctgccaag	gacagggtgac	180
cagacagcat	tagacaggct	gtgacctgaa	caggcacggc	cagagccaag	ggggctgctg	240
cagctccttc	tccagctgtc	actgtctcca	gcccttctctg	ccccctctcc	tggcacatcc	300
cccaaggcct	tcaggctgac	ccctggattt	cagaacaccc	ctcttcatca	gaacgtatcc	360
agcctgggtt	ccatgcccct	caacagcaag	acaccagttc	ccctgcataa	acagggtgctg	420
aagtcaggag	gactcaggca	gacacactgt	acacatcacc	gcaagctctc	cttcagctct	480
cccaacgact	wtaagtggag	tgtaaatatg	cctgtttttac	agataaggta	actgaggatc	540
aagaagtttaa	gtgattttgt	caaggttgtc	actgcagcag	ttttgtgggt	tcctctctaa	600

gatggagaga	agttacacca	ggacttagtg	cctgggaagc	aaagaggtga	aattactcgg	660
ccaggattgc	acagctgaca	gtgatgatac	cgatggctgt	gcttttagta	gctgttaggt	720
accaggaact	gtgcttggcc	cttgacacat	ataatttcac	ggaatcctca	cagcagatta	780
aaaaaaaaaa	aaggtaccat	attgtcccca	ttttacagac	cacccttac	aagagtggga	840
tggtg						845

<210> 116  
 <211> 760  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (13)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (300)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (425)  
 <223> n equals a,t,g, or c

<400> 116						
cggacgcgtg	ggncgggacgc	gtggggaaaa	aataacaaaa	caaaaaacaa	gaaaaaaaaa	60
acacaaaaac	ccgtaaaaatc	acaaagaaaa	tccaacacca	aaggcgacga	agccggctgg	120
ccgtggtggg	ggcagcgtag	gcgtasatcc	ctctcctctc	acttagcctg	ttgactcttg	180
ttattatcat	gatattcaca	aaacgcgcga	tgtttaaaaa	gtcatagatg	tcattcttctc	240
tctgccccca	gggaggaaag	ccaccttctc	ttgccccctg	gcccccttgt	cagggggccan	300
gggtctgccc	ggtgggggtg	ccaacaggcc	tggccccctt	ctccccctgca	tccagccatg	360
ggggcctctg	cgattgccgg	aagggttgcg	ggctgggtccc	agggccagca	caggccccgag	420
gccgngctgc	ctgggttttat	ttttatttta	ctttattttc	tgttttatga	gtgtgtgtcc	480
gcccccccc	accccccttca	gtgttaagtg	gggagccctg	ggggagtctc	tcctgcctcc	540
cagcctctcc	caagacctcc	ccccctcgta	ccagccatcc	ctctggacca	ggcagagggc	600
ggaccgggtg	ggcagggggc	tgaggggtgg	tggggccagc	ccaccagcca	atggaccctt	660
cctcagggcg	ccagtgtcgc	cctgccccct	tttaaaacaa	aatgccctcg	tttgraaacc	720
cttagacgct	tgagaataaa	cccccttctt	ttcttccaaa			760

<210> 117  
 <211> 988  
 <212> DNA  
 <213> Homo sapiens

<400> 117						
gtagcagcgt	ggcttccctg	gctcctctct	gcaccccttc	cgaccttccc	agcaatatgc	60
atcttgcaag	tctggtcggc	tctgtctccc	tccttctgct	actggggggc	ctgtctggat	120
gggcggccag	cgatgacccc	attgagaagg	tcattgaagg	gatcaaccga	gggctgagca	180
atgcagagag	agaggtgggc	aaggccctgg	atggcatcaa	cagtggaaac	acgcagtccg	240
gaagggaagt	ggagaagggt	ttcaacggac	ttagcaacat	ggggagccac	accggcaagg	300
agttggacaa	agggctccag	gggctcaacc	acggcatgga	caagggtgcc	catgagatca	360
accatggtat	tggacaagca	ggaaaggaag	cagagaagct	tggccatggg	gtcaacaacg	420
ctgctggaca	ggccgggaag	gaagcagaca	aagcgggtcca	agggttccac	actgggggtc	480
accaggctgg	gaaggaagca	gagaaacttg	gccaaggggt	caaccatgct	gctgaccagg	540

ctggaaagga	aktggagaag	cttggcccaa	gtgcccacca	tgctgctggc	caggccggga	600
aggagctgca	gaatgctcat	aatgggggtca	accaagccag	caaggaggcc	aaccagctgc	660
tgaatggcaa	ccatcaaagc	ggatcttcca	gccatcaagg	aggggccaca	accacgccgt	720
tagcctctgg	ggcctcggtc	aacacgcctt	tcatacaacct	tcccgccttg	tggaggagcg	780
tcgccaacat	catgccctaa	actggcatcc	ggccttgctg	ggagaataat	gtcgccgttg	840
tcacatcagc	tgacatgacc	tggaggggtt	gggggtgggg	gacaggtttc	tgaaatccct	900
gaaggggggtt	gtactgggat	ttgtgaataa	acttgataca	ctaaaaaaaa	aaaaaaaaaa	960
aaaaaaaaaa	aaaaaaaaag	gagggggg				988

&lt;210&gt; 118

&lt;211&gt; 1947

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 118

gaattcggca	cgagttgttg	tctattttaat	gccatgcttt	tcctgttttt	gtactgtttg	60
ttggttgttt	tgccatttaa	attaaccccc	aagcatagtg	ctgaagtgtc	gcttagcatt	120
cacaagtcca	agaaatattt	atgtaaagtg	aaagctgcct	gcaagattca	agcctgggat	180
agatgttggg	gagcacacaa	agaatatcta	gctatatata	aaagctgtta	aattattcaa	240
ggttgcttct	ataccaaact	agagagaaca	cggtttttga	atgtgagagc	atcagcaatt	300
atcattcaga	gaaaatggag	agctatactt	cctgcaaaga	tagctcatga	acactttcta	360
atgataaaaa	gacatcgagc	tgcttgtttg	atccaagcac	attatagagg	atataaagga	420
aggcaggtct	ttcttcggca	gaaatctgct	gctttgatca	tacaaaaata	tatacgagcc	480
agggaggcyg	gaaagcmtga	aaggataaaa	tatatagaat	ttaaaaatct	acagttatcc	540
tacaagcayt	ggtgcgtggt	tggytagtac	gaaaaagatt	tttagaacag	agagccaaaa	600
ttscgacttc	cttccacttc	actgcagctg	catattatca	cctgaatgct	gttagaatcc	660
aaagagccta	taaactttac	ctggctgtga	agaatgctaa	caagcagggt	aattcagtea	720
tctgtattca	gagatgggtt	cgagcaagat	tacaagaaaa	gagatttatt	cagaaatata	780
atagcatcaa	aaagattgag	catgaaggtc	aagaatgtct	gagccagcga	aatagggtcg	840
catcagtaat	acagaaaagc	gtgcgccatt	ttctcctccg	taaaaagcag	gaaaaattca	900
ctagtgggaat	cattaaaatt	caggcattat	ggagaggcta	ttcttgaggg	aagaaaaatg	960
attgtacaaa	aattaaagct	atacgactaa	gtcttcaagt	tgtaaatagg	gagattcgag	1020
aagaaaacaa	actctacaaa	agaactgcac	ttgcacttca	ttaccttttg	acataaagc	1080
acctttctgc	cattcttgag	gccttaaaac	acctagaggt	agttactaga	ttgtctccac	1140
tttgttgtga	gaacatggcc	cagagtggag	caattttctaa	aataattkgt	ttgatccgaa	1200
gttgtaatcg	cagtattcct	tgtatggaag	tcatacagata	tgctgtgcaa	gtcttgctta	1260
atgtatctaa	gtatgagaaa	actacttcag	cagtttatga	tgtagaaaaa	tgtatagata	1320
tactattgga	gcttttgcag	atataccgag	aaaagcctgg	taataaagtt	gcagacaaag	1380
gcggaagcat	ttttacaaaa	acttgttgtt	tggtggctat	ttactgaag	acaacaaata	1440
gagcctctga	tgtacgaagt	aggtccaaag	ttgttgaccg	tatttacagt	ctctacaaac	1500
ttacagctca	taaacataaa	atgaatactg	aargaatact	ttacaagcaa	aagaagaatt	1560
cttctataag	cattccctttt	atcccagaaa	cacctgtaag	gaccagaata	gtttcaagac	1620
ttaagccaga	ttgggttttg	agaagagata	acatggaaga	aatcacaaat	cccctgcaag	1680
ctattcaaat	ggtgatggat	acgcttggca	ttccttatta	gtaaatgtwa	acatttttcag	1740
tatgtatagt	gtwaagaaat	attaaagcca	atcatgagta	cgtaaagtga	tttttgctct	1800
ctgtgtwcaa	cttttaaaat	ctgactttgt	tttaaaaaaa	cataaactgt	tcattacatt	1860
cttcattttt	atcattttata	gtttttatga	tgtaatatac	taatatgtca	taagatgaaa	1920
aaaaaaaaaa	aaaaaaaaaa	aactcga				1947

&lt;210&gt; 119

&lt;211&gt; 1448

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1441)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 119

tcgacccacg	cgtccggaac	gtgctccgcg	ggctcagtc	gcccgcgct	gcgtccgcg	60
agtgcgaagt	agcttctcgg	ctgccccg	ggccggggtg	cggagccgac	atgcgcccgc	120
ttctcggcct	ccttctggtc	ttcgccggct	gcaccttcgc	cttgacttg	ctgtcgacgc	180
gaactgccccg	cgggcgga	ctgggctcca	cggaggaggc	tggaggcagg	tcgtctgtgt	240
tccccctcga	cctggcagag	ctgcgggagc	tctctgaggt	ccttcgagag	taccggaagg	300
agcaccaggc	ctacgtgttc	ctgctcttct	gcggcgcccta	cctctaacaa	acaaggcttt	360
gccatccccg	gttccagttt	cctgaatgtt	ttagctgtgt	ccttgtttgg	gccatggctg	420
gggcttctgc	tgtgtctgtg	gttgacctcg	gtgggtgcca	catgctgcta	cctgctctcc	480
agtatttttg	gcaaacagtt	ggtggtgtcc	tactttcctg	ataaagtggc	cctgctgcag	540
agaaagggtg	aggagaacag	aaacagcttg	tttttttct	tattgttttt	gagacttttc	600
cccatgacac	caaactgggt	cctgaacctc	tcggccccaa	ttctgaacat	tcccatcggt	660
cagttcttct	tctcagttct	tatcggtttg	atcccatata	atttcactct	tgtgcagaca	720
gggtccatcc	tgtcaaccct	aacctctctg	gatgctcttt	tctcctggga	cactgtcttt	780
aagctgttgg	ccattgccat	ggtggcatta	attcctggaa	ccctcattaa	aaaatttagt	840
cagaaacatc	tgcaattgaa	tgaacaagt	actgctaata	atatacacag	tagaaaagac	900
acatgatctg	gattttctgt	ttgccacatc	cctgggactc	agttgcttat	ttgtgtaatg	960
gatgtgggtc	tctaaagccc	ctcattgttt	ttgattgcct	tctatagggt	atgtggacac	1020
tgtgcatcaa	tgtgcagtgt	cttttcagaa	aggacactct	gctcttgaag	gtgtattaca	1080
tcagggtttc	aaaccagccc	tgggtgtagca	gacactgcaa	cagatgcctc	ctagaaaatg	1140
ctgtttgtgg	ccgggcgcgg	tggctcacgc	ctgtaatccc	agcacttttg	gaggccgagg	1200
cgggtgattc	acaagtcagg	agttcaagac	cagcctggcc	aagatggtga	aatcctgtct	1260
ctaataaaaa	tacaaaaatt	agccaggcgt	ggtggcaggc	acctgtaatc	ccagctactc	1320
gggagggtga	ggcaggagaa	ttgcttgaac	caagggtggc	gaggttgtag	taagccaaga	1380
tcacaccact	gcactccagc	ctgggtgata	gagtgagaca	ctgtcttgac	aaaaaaaaaa	1440
naaaaaaa						1448

&lt;210&gt; 120

&lt;211&gt; 496

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 120

tcgacccacg	cgtccgaact	gacacaatga	aactgtcagg	catgtttctg	ctcctctctc	60
tggctctttt	ctgcttttta	acagggtgtc	tcagtcaggg	aggacagggt	gactgtgggt	120
agttccagga	caccaaggct	tactgcactc	gggaatctaa	cccacactgt	ggctctgatg	180
gccagacata	tggcaataaa	tgtgccttct	gtaaggccat	agtgaagaat	ggtggaaaga	240
ttagcctaaa	gcaccttgga	aaatgctgag	ttaaagccaa	tgtttcttgg	tgacttgcca	300
gcttttgcag	ccttcttttc	tcacttctgc	ttatactttt	gctgggtgat	tcctttaatt	360
cataaagaca	tacctactct	gcctgggtct	tgaggagtgc	aatgtatgtc	tatttctctt	420
gattcacttg	tcaataaagt	acattctgca	aaagcaaaaa	aaaaaaaaaa	aaaaaaaaaa	480
aaaaaaaaaa	aaaaaa					496

&lt;210&gt; 121

&lt;211&gt; 1174

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1151)

&lt;223&gt; n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1160)  
<223> n equals a,t,g, or c

<400> 121  
gagaggttca ggttgggtctt gctggcatct tcacctaaaa taggggtctgg cagacaggcc 60  
catgcgctgc atcctgcccc cggcctgata gatggcctgt gaatggcttt ttacatttt 120  
aaaagtgggt gaaaacaaat taaaaatata ttcatgaca tgaaaatcat gaaattcaca 180  
tttcattatc tgagaataaa cttttatgga tgcagccatg cctgtctgtc catgtcttat 240  
ctgtgtctgc tttgtgctac ggctgcagag tggagtggct gggactgaga cggaacgccc 300  
tcctcacggg gccgcgtctc tccaccagga ccgcggggct actctgaggc tctgcttctt 360  
ccccagcggg gttggcttcc tgctattcct cagtatcctg ccttggctct gaggttggctc 420  
ctctgscaag agccgtttct gtgtctcagt ggatggcgca ctgsccttct tgttgggtacc 480  
ttgactgata gackggttcc tgttcackgc yccgaagtca tcccagaaaa cctctyacag 540  
ttgcatgggt tgaaccagct ccgcgtgtat ttagagtttt gtctcttgcc ccttcaccca 600  
gaacagcagc acccaccacc ttctgtccc ctgtgactgc ctgcaactg ggtctgttct 660  
gtgagatgtc gccaccctgt ttgccatctg ggaggatctc actccttcaa tttaatctgc 720  
tctcttccgt tattttttta gtttctatgt attttacttt taggacattc cagcctgggt 780  
gacagagtga cgggtctcaa aaaaaaaaaa aaaaaaaaag cacaccagtg tcttccattt 840  
ctcttttaat cataatcatg ctttaaaaaa taccctcgag catatggagc aaatttaaga 900  
taattgttcc ttttctgcta attcattatt actgtcatat ctagggtctgt ttctgtcgac 960  
tgtggaccac ttatgtgcga tccgtggacc acttgcgctgc gatctgtcgg ccgacgatga 1020  
gcttgttcgg atgtagctcc atcgtaagtc gaggagcatc tgtgatttgt cctctgctta 1080  
tgggatatgt ttttccgcta ctragtctgt gtagtaatt tttgactagg aaaaaaaaaa 1140  
aaaaaaaaact nggggggggn ccccgtaacc catt 1174

<210> 122  
<211> 1046  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (14)  
<223> n equals a,t,g, or c

<400> 122  
ttgcaggaat tcgncacgag cactagtagc tggtytcca ggctggcggc gctcaccttt 60  
ctcctagccg ggtgaccag gggatttatt ttatgttggc tttctctgaa atgccaaagc 120  
caccgatta ttcagagctg agtgactctt taacgcttgc cgtgggaaca ggaagatttt 180  
cgggaccatt gcacagagca tggagaatga tgaacttccg tcagcggatg ggatggattg 240  
gagtgggatt gtatctgtta gccagtgcag cagcatttta ctatgttttt gaaatcagtg 300  
agacttacia caggctggcc ttggaacaca ttcaacagca ccctgaggag ccccttgaag 360  
gaaccacatg gacacactcc ttgaaagctc aattactctc cttgcctttt tgggtgtgga 420  
cagttatttt tctggtacct tacttacaga tgtttttgtt cctatactct tgtacaagag 480  
ctgatcccaa aacagtgggc tactgtatca tccctatatg cttggcagtt atttgcaatc 540  
gccaccaggc atttgtcaag gcttctaata agatcagcag actacaactg attgacacgt 600  
aaaatcagtc accgtttttt ccctacgatt acaaaaactgc cagtcctata tggagtctga 660  
tcacaagact gcagtttctt cacagatctc aggaagtgtt cgtggggcag aggctttttta 720  
aaaacatgtg attagggagc tatctttatc tgaataataa cgaattttta ggtaaaaacct 780  
gagatagagt actacaaaat catgttgatg acttcagatt ttggaagtta aatcatgtct 840  
gttatttgca ttcttttagaa acttgactaa gtacctgaat tcatatttct attctactgt 900  
gcaacatagt gatgattcag aaatttttcc tttggggaaa aaaatgaata tgaacatttc 960  
catttgttta agtgtaaaaa ggtccagaca tgatcataaa atttaatttt tatacaaawa 1020  
aaaaaaaaaa aaaaaaaaaa tcgtag 1046



<210> 123  
<211> 1160  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (325)  
<223> n equals a,t,g, or c

<400> 123  
ggtcctatgt gtctataact tatcagattg ggagctagca gaaagagata agattattgc 60  
tatataattt ttagggatag acaatttaat ttccttggtt tcctgtctca tggacctcac 120  
ttaaccagta gtatgtgggt gttttttcta ccttttttct ccatcttatt taaaatttgt 180  
tggtgtatgt cccttagtca aactaaagag aaacaatcat ctaatcttat gttttatttc 240  
ttttgtatat gtacatatga gaggaggagg aagaaagaga tgaggagagg tgaaaagaaa 300  
agatccttct gcctgattgg gcttngccag catatgatag cagtgcaggc ctggttccat 360  
gagcagcatc agattcaaat ttcatagaaa aagagcccag aggaattgaa aaagagaaat 420  
taaattcaac aaggagaggc attgtataca ttatgcattc acgatagggt atgattgaga 480  
agaagctggg gctttgggaa aaacatatta ggttctacat ttaccctttt tgaatagtgt 540  
tctccttctt aaacaggggtg ataataaggag aatgctgaat gcctctccat tgaatttgga 600  
aactgccggg ccagcattag tgtggtattg tctgcccaca cttttctaga tgcaagttta 660  
agatcatgtt cagtgtgaac attgaggact ttagagatcg gagtccgaaa tgtgtcaaa 720  
ttaatgttaa tagatgctgt cctcattttg taactgtgac ttctaaatgt gaccttttag 780  
ttcatatctc ataaattttgc catttaagaa gaaatacaga watgaaagt tkaagtttta 840  
ataaaagtat atcttgctgg gtgcagtggt tcatgcctat aatcccagca ctttgggagg 900  
ccaaggccgg cagatcactt gaggtcagga rttggaract agcctggcca acatggcaaa 960  
accttgctct tactaaagat acaaaaaaaaa taggtgggca tgggtggtgca catccgtatt 1020  
cctagctact tgggaaggctg aggcacaaga atcgcttgaa cccgggagac agaggttgca 1080  
gtgagccgtg attgcaccag tgcactccaa cctgggtgac acagtgaagc tgattcaaaa 1140  
aaaaaaaaaa aaaactcgag 1160

<210> 124  
<211> 893  
<212> DNA  
<213> Homo sapiens

<400> 124  
ggcacgagta agggataaag tgggcctgag ccaggtacat cctctgcagg aggtgaagt 60  
ttctgaaaca agaagtggga gaggggttcag taggaaggtc cacaagtga gtcgacaaaa 120  
gagatcctgc tgtttcccca tgagtgccac aagggaactgg ggtggaaggg ctgaggctgg 180  
accagtcctg gatgcagtgg ccttttctgt gtgttcttcc tctgctccct caggctctga 240  
gggctgggag cctgctgctg gctctggaac tttactcagt cttggtgagc cactttcttt 300  
gggaaatgtg gaccatgtct cttaaagaac cagaattgct tctttccacc aagtcattaa 360  
ctgtgtggag arggagagag cccctgtcag aaattggggg atgcagactg aacaatgaag 420  
gaacatagca acaatgaag aacataggga caatgacwcc accttgagtc cagtgggaatg 480  
aggtgctggc gcattaaaga atgaggaamg ggacagagac aggtgtaaga gacgatggaa 540  
caatcascca agaaagtcag ggggttggct gggcgcggtg gctcacacct gtaatcgccg 600  
cactttggga ggctgtggcg ggcagatggc ttaagcccag gagttcgaga ccagcctgaa 660  
caacatggca aaaccccatc tctacgaaaa atgcaaaaaat tagccaggca tgggtggcatg 720  
cccatgcagt ctcagctact tgggaagctg aggtgggagg atggcttgag cctggcaggc 780  
agaagttgca gtgagacaag attttttaaa aggccaggca tgggtggctaa tgcttgaat 840  
ctcagcactt tgggaggcca aggtaggcgg atcacctgag gtcaggagct cga 893

<210> 125

<211> 1049  
<212> DNA  
<213> Homo sapiens

<400> 125  
ggcacaggaa aaagccatct aaggtgctaa gttaaaagaa aaaaaaaagg ccttataagg 60  
tactcaggat ctacacgagg ttgttaattc atgttttgct ttaattgggt actctgtttc 120  
ctatttcctc ggtttccaat acttgtttgt agaaaacatc agttttgtgt gtatttgctc 180  
ttggtcctaa agttaaggac actatacgca gagttaattg accttcattt gtgtgccagc 240  
attctggggg gacataatgc ctgcaagtgt catattctta atatgtgagg gggttctata 300  
tggagtagac ggttagttgc taaataacct ctgtaccctt ttttctctgt ctcgatgtat 360  
gcctctcatc tcctgtagat tgcctatttg tatgtattcc tagaaaaggc cttcgatagg 420  
acgtctgtag ggttattccc ttctaaaggg aatgggtata cctctgacc tatcaattcc 480  
atttctataa atttatccca tagatatact cacaaatgtg taaaatgaag tatatttgaa 540  
gtaaattatt aaagcmmtaa gagcaagcta aatgttcatc agcaggaaat ggagtcaata 600  
tatcttcgtc tgtctgtata atggaacaat atgtattatt atgaacagtt tttagacaaa 660  
taaaaaataa ctgaagttta aaaagttgag ttaaaaaagc aaggtgtaaa acagtatgag 720  
tagtatctgt gtacgtttgt agatactgta cacacatgtt agagggcaat ttggataaag 780  
tattctgtgc tcaattaaca tattttccct ttgtcttctt ggctctactg gcttattacc 840  
agtagcagtt actcgggagt taccagcta ctccaggaggc tgaggcagga gaatcgcttg 900  
aaccaggag gtggaggttg cagtgaagct agatcgcgcc tgggtgacag aacaagactc 960  
cgtctcaaga aaaaaaaatg cttatgttct gtataaaatc ttcaawaaaa tgacgatacc 1020  
agtaaaaaaa aaaaaaaaaa acctccgta 1049

<210> 126  
<211> 1626  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (525)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (542)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (562)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (607)  
<223> n equals a,t,g, or c

<400> 126  
ccacgcgtcc gacgcggcgc acgcggcagt cctgatggcc cggcatgggt taccgctgct 60  
gcccctgctg tcgctcctgg tcggcgctg gctcaagcta ggaaatggac aggctactag 120  
catgggtccaa ctgcagggtg ggagattcct gatgggaaca aattctccag acagcagaga 180  
tggtgaaggg cctgtgcggg aggcgacagt gaaaccttt gccatcgaca tatttcctgt 240  
caccaacaaa gatttcaggg attttgtcag ggagaaaaag tatcggacag aagctgagat 300  
gtttggatgg agctttgtct ttgaggactt tgtctctgat gagctgagaa acaaagccac 360  
ccagccaatg aagtctgtac tctggtggct tccagtggaa aaggcatttt ggaggcagcc 420

tgcagggtcct	ggctctggca	tccgagagag	actggagcac	ccagtgttac	acgtgagctg	480
gratgacgcc	cgtgcctaata	gtgcytkgsg	gggggraaacg	actgnccac	sggaggggaag	540
antggggagt	ttttccgccc	gnaggggggc	ttgaarggtc	caagtttacc	ccatgggggg	600
aactggnttc	cagccaaacc	gcaccaacct	gtggcaggga	aagttcccca	agggagacaa	660
agctgaggat	ggcttccatg	gagtctcccc	agtgaatgct	ttccccgccc	agaacaacta	720
cgggctctat	gacctcctgg	ggaacgtgtg	ggagtggaca	gcatcaccgt	accaggctgc	780
tgagcaggac	atgcgcgtcc	tccggggggc	atcctggatc	gacacagctg	atggctctgc	840
caatcaccgg	gcccgggtca	ccaccaggat	gggcaacact	ccagattcag	cctcagacaa	900
cctcggtttc	cgctgtgctg	cagacgcagg	ccggccgcca	ggggagctgt	aagcagccgg	960
gtggtgacaa	ggagaaaagc	cttctagggg	cactgtcatt	ccctggccat	gttgcaaaaca	1020
gcgcaattcc	aagctcgaga	gcttcagcct	caggaaagaa	cttccccctc	cctgtctccc	1080
atcctctctg	ggcaggcgcc	tctcaccagg	gcaggagagg	actcagcctc	ctgtgttttg	1140
gagaaggggc	ccaatgtgtg	ttgacgatgg	ctggggggcca	ggtgtttctg	ttagaggcca	1200
agtattattg	acacaggatt	gcaaacacac	aaacaattgg	aacagagcac	tctgaaaggc	1260
catttttttaa	gcattttaaa	atctattctc	tccccctttc	tccctggatg	attcaggaag	1320
ctgmacattg	tttctcaag	gcagaatttt	cctggttctg	ttttctcagc	cagttgctgt	1380
ggaaggagaa	tgctttcttt	gtggcctcat	ctgtggtttc	gtgtccctct	gaaggaaact	1440
agtttccact	gtgtaacagg	cagacatgta	actattttaa	gcacagttca	gtcctaaaag	1500
ggtctgggag	aaccagatga	tgtactaggt	gaagcattgc	attgtgggaa	tcacaaagca	1560
aatagtactc	cagaaagacc	ctgtctcaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1620
aaaaaa						1626

&lt;210&gt; 127

&lt;211&gt; 1177

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (484)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 127

ccacgcgtcc	gctatcatca	gagcatgtca	cagatctatg	gactcattca	tggtgacctg	60
tgttttatcc	caaacgtcta	tgctgctttg	ttcactgcag	ctcttggtcc	tttgacgtgc	120
ctcgtggtgg	tgttcgtggg	gttcatccat	gcctaccagg	tgaagccaca	gtggaaaagca	180
tatgatgatg	tcttcagagg	aaggacaaat	gctgcagaaa	ttccactgat	tttatatctc	240
tttgctctga	tttccgtgac	atggcttttg	ggaggactac	acatggccta	cagacacttc	300
tggatgttgg	ttctctttgt	cattttcaac	agtctgcagg	gactttatgt	tttcatggtt	360
tatttcatct	tacacaacca	aatgtgttgc	cctatgaagg	ccagttacac	tgtggaaaatg	420
aatgggcatc	ctggacccag	cacagccttt	ttcacgccc	ggagtggaa	gcctcctgct	480
ggangggaaa	tcagcaagtc	cacccagaat	ctcaatcggg	ggtatggagg	aaggtgccac	540
ctgactggga	gagagcatcc	ttccaaacag	gggartcaag	gccagcccyg	rwttaaagcc	600
aagtccacaa	aatggrgcca	cgktcccgtc	ctctggagga	tatggccagg	grtcaactgat	660
agccgatgag	gagtcccagg	agtttgatga	tttaatat	gcattaaaaa	ctggtgctgg	720
tctcagtgtc	agtgataatg	aatctgggtca	aggcagccag	gagggggggc	cccttgactg	780
actccccaga	tcgtggagct	ccaggaggat	acccatcgcc	gacactcacc	tgtagcacct	840
actcaaccat	tcgactgagc	acactttcat	atttgtatca	gcttttgtgc	taaaactctc	900
taagtacatc	cacctgtgta	ataggaacct	gtgaattgta	ctggatgatt	aatacaaacg	960
tgattgttgt	atgttgagta	ttaaattactg	attgtatgtg	acctgaaaat	tactgctat	1020
aagaaagggtg	gagtcagttt	gtatcagttt	ataggatgtt	catattccaa	ggatattagt	1080
tgttttttta	atcactctat	atggctaaca	ttgtttaatg	aaagtaataa	tcaataaagc	1140
aatagaatct	aaaaaaaaaa	aaaaaaaaaa	aaaaaa			1177

&lt;210&gt; 128

&lt;211&gt; 1276

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 128

tcgacccacg	cgcccgccca	cgcgcccgct	taatatctgt	attcccagtt	gcctacggga	60
taaaagccca	aactccttag	cagagaatat	aaggccctag	ctcccacatt	atctcagcag	120
tcatacccca	ctatgttcct	caagactgca	gccattaact	ttttagagtt	ccctaaacat	180
gctgtttact	tcatgacctc	tatcccgttg	tctgtggaat	gacttccctc	cttgcccttt	240
tcagtgttac	aaacccctat	tctttaagac	atagtacaaa	tggcatctcc	tggttggcat	300
ctttcctgca	ggcctacagg	cctagtaagt	atcttccctc	tctgtgctcc	tgcatacctc	360
cattcctttg	ttatgacatc	tataacttta	ataagtacta	aaatctgtag	tcctacaaaa	420
ctcaggcata	gaactcattt	cctttatggy	tctataatgg	aactttaccc	aactctcacg	480
ttccccatga	ccacagatgt	ggaaaatttg	aatcttgaca	gttcaagggtg	aactcagtca	540
ttttcagagt	tttcatagtc	ccttcaagat	tgaaactcag	ttcctgcaat	gtttgccctt	600
tttctcctct	tttgtctatg	ctgggagagg	cattgtgggg	agggttgtct	ggcttatggc	660
tcccattgtc	ctctgtctga	taaaccacct	gagctttggt	cattagcagt	ctcctgtgcc	720
tttcacactc	aggtagtgtc	tgcacaggcc	actctatgtc	ttttccatgc	tgaagaaatt	780
cctttccagg	ccatgtctgt	gttcctcctg	ccacacagga	aatttttgag	catgttcac	840
ctccaagctg	aatgcagggt	cctgggtagt	ggctcctacc	tgtccagag	acttctccag	900
ccattgccac	tctccactca	ggtgatgaag	ctggatgagg	gactgcaccc	accagagtca	960
ggccagggtc	ctgtctgtct	tgtgagtccc	tccaattggt	cttattccga	gatttccatt	1020
gttctgcccc	ctcttgactc	ccagggtctt	caagggtgag	ggggtagtga	agggtgacct	1080
ttcccaagct	cccccaagag	ctctagtcac	atcacttctg	atacttcttt	tcccaccagc	1140
tggaagaaag	aactttcatt	tgtcttgaaa	tgagaaaaat	gttcttagaa	tattttgtat	1200
tactctctgc	tctgtcattt	atggtaaaca	aaataaaaata	ataaaaaaaaa	aaaaaaaaaaa	1260
aaaaaaaaagg	gcggcc					1276

&lt;210&gt; 129

&lt;211&gt; 1334

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 129

tctcagtggt	cagaggctgt	gttggaacca	tagtagaatt	ttccagtcac	agacccaagc	60
ttccatgggt	tgttactgtg	ctgtaccact	tgggtgktct	gattctgaac	ctgatgtgtg	120
tgttaattat	attttaagca	acacacacac	acacacacgc	ctcatgtaat	ggactttttat	180
aacaaaagaa	aaaatttgga	tttctaattt	acaaatggca	aattattttat	ccctctctgg	240
atgcacaaa	gaccagtaaa	gtttatagct	tttccatcta	tatttataaa	gcaatactgt	300
attataaaaa	tcaatatattt	tatcacatgc	ttgaaatttt	tattttgttg	ttttaaaatg	360
tgcactctaa	acatatcaga	accttatttc	ttcctatgaa	cttaagctgc	ctgcgcacaa	420
aaaaaaaaaa	aatttaccaa	atggagatgc	agtagagtcc	ataggctcta	aaaactaaaa	480
gaaatgggat	gcagggggaa	caagtatttt	gtcctgagtt	actgtacttg	cttgacatgg	540
ttgttgggta	ctaaatcaca	aaagaatcca	ttccagggtat	gcatgtctgg	gggttgggct	600
gtgtctagat	tagaaactgg	gtttcaagct	ttgcatgatg	ggagagcgte	ctctcctcta	660
tcagctgcgt	gtgttctgga	taggacagta	gcccggagat	ggaaaccacc	ttcagtacca	720
ttagcccacc	ataccaagta	acaagttagg	caggaatcgt	gggaatttat	tgagtcagct	780
ttgagtgttt	gagagaatgt	aaacaagatt	ggctcgaatt	gtaaacgttt	gtactttgga	840
tgagttcatg	gttcttttagg	tcaccttaat	accagctatc	tttggtagaa	gctacagcat	900
tcagtttctc	tggaaactgt	atcacatttt	tgcattttta	aaattttaca	gtatcaaaaa	960
acaaaaatct	gcttatgaaa	caaaacatga	agcaggacat	atttggattc	tatttattta	1020
aaattaaatt	ctttgcaaaa	ttgaacttct	caactaaaac	gtgtccatgt	cagaatttta	1080
actgttagca	ggtagtttgt	ggcaaagatg	gctaaataat	gaagcaaatt	agaatctgtg	1140
tgtataactaa	tgagctgctt	tttttctgtt	gagactatca	ttatttgtct	tattacccaa	1200
gaggcaatta	cctgaatttg	gatgtctgaa	ttataactta	tgcaggaata	gttctgtaaa	1260
tacattttaa	taaactgtaa	agatatttta	taaatatagt	atttatacta	aaaaaaaaaaa	1320
aaaaaaaaact	cgag					1334

<210> 130  
<211> 532  
<212> DNA  
<213> Homo sapiens

<400> 130  
ggcaccgagcc ttggggccatc tcctaaaaatg atcttttatca taatagctac agtaaaaaga 60  
aagaaggaga ggtattaatg tgggtggaaa tcaggacagt ttcctaatgc cgtggccttac 120  
aattctgaga tttctccagg catcaggaca tgtgcgcgca caggacttgg ctctcttagg 180  
agatacttca gtttgtatca gatgtggctg tggagggtgc tctttaagca ttgctaacta 240  
tgagtgggtc cctctcagaa ggaaggactg taagagggtat gaaacttctg agaaaacgag 300  
ctgtcttctc ttaccaagcg cctgcagccg tcaaaatgct gtaggcttta gtcgtctgcc 360  
agttcccaag ctgagctgtc tccttcatgg ataggatttg tttgtttaga aacaacaaca 420  
aagttcattc tgtttataac tcagagcatt tgttttttct gctgaggcta aaatacttgt 480  
ttattctttc ctaggaggaga aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aa 532

<210> 131  
<211> 685  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (491)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (661)  
<223> n equals a,t,g, or c

<400> 131  
tcgtctctct tctttctctt cttctctctg tttttaagtc aagtattggt caaaaaaatg 60  
caatcttctg ttttttggtc agcagacaat cattttcttc gtaagcacct ttttctctcc 120  
actctgtcac tgcctgtgtg ggtactggtt ataaatgtgg aaaaagaata gttatgactg 180  
taacagattt ttatttttat ttcaaaatth tatatgaatt atgtatatct taatgatcgg 240  
tcattttccc agtttgtaat atatgtgtag aaattgcctg tatatgatat tgctttttct 300  
cctctccctt tctctttctc tcctctccct ctctctgtct ttctccccgc tcaactgtct 360  
cttttctttt tgggggtctc ctcccactcg gtgctcctgg tgtcgacttg gcagtcaagg 420  
agaggcatgg tggcctgggt taggaagagg gacctgtcg ctagcaaaag cggagagtga 480  
gattgtagta ntcttatgca aaagctatth ccagtatttc ttagcagctt cagaggtatc 540  
tctcactccc tgtagggcgc ttttactggt atctttaaact gcgtgtttat ctatatgtaa 600  
aaactttcta aagcaaatac agtattctcc attttcttat caaaaaaaac aaaaaaaaac 660  
ncgagggggg gccgtaccat tcgcc 685

<210> 132  
<211> 729  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (725)  
<223> n equals a,t,g, or c

&lt;400&gt; 132

tcgacccacg	cgcccgcca	tttagaaata	atcaactctt	aatcagcctg	ggatagtcag	60
tactaaaagc	accttcacga	gctgtgaaaa	atttaagtca	tttatttaca	tatttagttt	120
taaatTTTTag	tatattgtta	gttgagggtat	agtttccaaa	caaagagccg	tgaaatgttt	180
agtaactgtc	tctgtacctc	tggatgagga	cagctcagcc	gggaatggag	ggggactggg	240
tgaggagacc	agaatgtcag	tgtggccacg	cagcacactt	ttgttttgtc	ttctgtcctt	300
gagcactggc	ttgttcctgg	ataaactagg	cataataata	cctatcctgc	tgtgtgggtg	360
gaagttaaata	gtgataatga	tgtgtgtgag	atgcctgcac	agtgcctgga	ggtattgaag	420
aattattgct	gcctwttctt	tttctaccta	ccacttaccc	gctacccccg	ggtgtctacat	480
gttagaaaaac	actgtgtaaa	gtgtggatgc	ttctgaaaaa	tctccctgcc	agcagttagt	540
gccaatagcg	tgagaaaaat	aagatgcaat	gatttggcct	cttttctgtt	tggcaataag	600
aagcttattt	gcmcatagcc	tgatttcttt	caatctgcaa	aaaaaaaaaa	aaaaaaaaaa	660
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	720
rgggngggc						729

&lt;210&gt; 133

&lt;211&gt; 1079

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 133

ggcacgaggt	gttagaaagt	tttcgaagca	gtgtgagctc	tgtacctttg	tggtcctgtc	60
tcacagacac	ctgtctatct	cctgacctct	ttaaatgcta	actttctgcc	tgtaggaaat	120
cttccctttg	tgttaggttc	ttttctctct	gtgagcttta	gataaacaac	ctagtgttta	180
aactttttta	taagggattc	attttttaat	acatgagaat	tcatttcaaa	attttgggtt	240
tagttattta	ttttattcta	cttggctctt	tttcagacag	atgttctctc	ctggattgta	300
aaagtccaat	tcaaaggatt	tttatttgta	atatacttaa	cctttctctt	gtaagttgcc	360
atctgtgtag	atacagcttt	gattgcctga	caagaggaaa	atgtttccca	ttatcttttc	420
ctgcctgaac	tatacgggtca	cttgtgttcc	agcatagtg	ttcttaacct	tcatagtggtg	480
tcagaatcac	tttgacagagc	ttttaaaaac	tctagatgcc	tgggggaccac	cccaaagact	540
ccattttgtt	gtcatgggtc	aaagcacagt	cttctagttt	gcagctagt	ttgagtacaa	600
ctagagttta	acctagttga	attttagttt	aatcttggct	ggtcttgaag	atgttagtaa	660
tctctattca	tttttttkga	aaagtaccaa	tgaratcaga	aagttaatta	gaaaacatct	720
agttgaatcc	cctgttttta	atagatgggg	aaaccaagac	ccagagaata	taatccaaag	780
ctacctgtca	cataggccac	aatttctttt	ccaatattct	gttcttcgct	gttctcttaa	840
tttgcagaac	tcctctttta	aaaacctttg	gagaatgtat	tggcctcata	ccctcttccct	900
tcagcctgaa	agacatgcac	ctgtcactta	tttatgatat	ttaaatgcaa	cctctagaac	960
aggggtgtcc	aatcttctgg	cttccctggg	ccacattgga	agaagaaatg	tcctggggcca	1020
cacataaaat	acactaatga	tagccgatga	acttaaaaaa	aaaaaaaaaa	aaactcgtta	1079

&lt;210&gt; 134

&lt;211&gt; 1297

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 134

gactcgtgcc	gaattcggca	cgaggggsaag	gggcgtcttc	tgtccttgtg	gtccgcttct	60
aggctttttg	gagcatcttc	caggggtcact	ccagagaccc	ccccagacta	ctgaatctga	120
atccgttagg	tgggtccaacc	ttctcttcca	ggtgtctact	agaggcaagg	ttggatgtat	180
gcggctgccc	tcagtacagc	cccttccttg	tttttcttct	atttgtgttt	acttaaaaaca	240
ttaatccttt	tctccctctc	ctccatccct	ctccctcccc	tactatacac	ttatgactta	300
cactaatcat	tcccgatgat	ctcccagaag	gaaataagtg	tctgtctgtc	tctgtctctg	360
taccatcgct	ttcttgggtac	agttcggact	attttttctc	tacacccag	ttatgcaaag	420
tgtagtcctt	gaaccagcag	cctcagcatc	ctgaggggaat	ttgttaaaaa	cgcgaaatct	480
caagccctac	ccagamttac	tgaatcagtg	tctgcattgc	aacaagatcc	cctggtaatt	540
cmtatgcaca	tcaaaaatttg	gaaggcacag	ctctcaactg	atgtcctggg	tctccttcac	600

atccatcctg	ggaaggtctt	attcctcatt	cctgagctca	tcccactgaa	gagctatggc	660
acttccaatt	cctgagcctt	tgtgaggttc	tgcgtgtcag	taagcttgct	tccgggcatac	720
acctccgaaa	acacttgggt	ttcagttttc	tctgtgaggc	ttcttaagga	gtggaggaaa	780
gtggatgttt	tcaagataac	gcagctaaca	ttcaaagagg	ttaagtgaat	tgtccaaagt	840
cacacagcaa	gcactggaga	ggcagtggtc	caccatgttg	cccggactgg	cctcggactt	900
stgggctcgg	gccatcctcc	cgtctcggcc	ttccaagtgc	tgagatcgca	ggcgtgagcc	960
accacgtccc	accgggatac	atagggtttta	cggatccctc	tgaacctccc	tttaatcaag	1020
agagtggaca	aaactgtggg	tcccycmtyt	tcaaaatggc	cagtaaaaga	ggaaataagg	1080
atatgcaagt	ttagttattt	tctgctgccc	tctttaagtt	gattggggat	ctctttgtca	1140
ctactttggg	aagataaact	accttcttat	ccactatggc	taattggagc	ttttctcatg	1200
tctttatggt	tgctgggaaa	ttttcaaata	aaattcactg	ggaatgggtt	gaaattgcaa	1260
aaaaaaaaaa	aaaaaaaaaa	aaaaaatgac	cctcgta			1297

&lt;210&gt; 135

&lt;211&gt; 617

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (513)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (559)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (587)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (602)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 135

atggaaaanc	aggcaaattc	tgaaatgggc	tggaaaaaag	ggagggaccc	agcactycca	60
gggagaaaac	ttggcatttc	ttgggaatct	aacaggatgc	agtgaaccca	agccttttga	120
agagctcacc	aatcagactg	cccttgctta	tccatgagca	gatgtttgat	agtattgcgg	180
aggccctcta	gtgggtatgc	tgccaagcaa	ctggagtggc	acttgggctc	taatccagtt	240
gtctatccct	ttcacccctg	catttcatca	gccaaacaaa	aaccaactaa	ctcagaaaaa	300
aaggaaagcc	cctcaagggt	cctttgaccc	cgatatctac	atagatgcta	tcgggggtccc	360
ctgaggggta	ccaaacraat	tcaaagctcg	aaatcaaata	gctgctggat	tcaagtctgt	420
ccttttcttg	tggtctacta	taaataaaaa	tgtagactgg	ataaattaca	tatactataa	480
aaaaaaaaaa	aaaaaaaaaa	ctcgaggggg	ggncgggtac	ccaattcggc	ctatagttag	540
tcgtattaca	atcatgggnc	gtcgttttac	aaagtcgtga	ctggggnaaa	acctggcggtt	600
anccaattta	atcggtc					617

<210> 136  
<211> 1311  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1284)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1296)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1301)  
<223> n equals a,t,g, or c

<400> 136  
ggcacagctt ttcaacatgc cttcagcact aatgactgct ccaggaatgt ctacattaag 60  
aagaatggct ttactttaca tcgaaacccc attgctcaga gcaactgatgg tgcaaggacc 120  
aagattgggt tcagtggagg ccgccatgca tgggaagtgt ggtgggaggg ccctctgggg 180  
actgtggcag tgattggaat tgccacaaaa cgggccccca tgcagtggca aggttatgtg 240  
gcattgctgg gcagtgatga ccagagctgg ggctggaatc tgggtggacaa taatctacta 300  
cataatggag aagtcaatgg cagttttcca cagtgcaca acgcacacaaa atatcagata 360  
ggagaaaagaa ttcgagtcac cttggacatg gaagataaga ctttagcttt tgaacgtgga 420  
tatgagttcc tgggggttgc ttttagagga cttccaaagg tctgcttata ccagcagtt 480  
tctgctgtat atggcaacac agaagtgact ttgggtttacc ttggaaaacc tttggacgga 540  
tgacagtggc ttttctgtga tgacagacas aatggaggag agatctgctt atgggaagta 600  
saaccatgaa gtgactgtca cacatgcatg tccaagaaac atcctgaaaa cacatgaagt 660  
cgtaaaactgg agaagcagct ctacagcaga gattatctcg tgtttcctct ttctactggg 720  
ccagaaaaat cctcagggtt gcagttgggt gagtgggcag ttgacatatg catgttgcac 780  
ccgatgttgt ctctaagtta gcaatgtgtt atttccagct ttaaagggtga gattgtagag 840  
atgctgtcaa agggataagg aaatagcaag atttttaagt agtgtgtttg tgaagactga 900  
tcccatttta caactgcctg ttctttctcc agtccttttt tttccagcca gcttgactat 960  
tagaaaagta tgaaactggg tgggttttat ttaatatatt taatatattg agaagcatgg 1020  
tctgcctgga ctgcacttct ctaaaagtga gatataaaat tgtgcagcta ttttaaaagt 1080  
tgtatataat atgtgtgtta aaaaaaaaac tgtaaaaaag raaggacaaa caggttggtt 1140  
tgttctagtt ctaatttctt aaaaaccact acatggttac aaaattggaa taacattttg 1200  
gggggacaaac tgggggttaac taccaaagaa ggagggattt aaagaggaga tgggtggttga 1260  
attgacccca tttggaataa ttnaggctt acagtnccca nagctgttag a 1311

<210> 137  
<211> 1095  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (616)  
<223> n equals a,t,g, or c

<400> 137  
gatgggtatgt gtgtggtgtg tatagggtga atgtgtggtg tgtgaggtgg gcatggtgtg 60  
tgtgaggtgt gtgtggtatg tgtggcatgt gtttggtgtg tatgggaata tactatggat 120



taggacatgt	gggttattca	aagatctatc	cttttgtgct	ttgaaatctg	aaatgtagaa	180
actgtggcct	cactgaggag	gagttttaga	atatgcaagg	gagatgatca	ggactggatc	240
ttgtatttgg	gtaccacatc	cagtcccaga	cagcatgcta	aggcaaggag	ctcataaaag	300
ccccaaagctc	tagctgttgg	ctacttatct	cctggagcat	caggtgagcg	cgttcaggct	360
ggggagtcct	gatggctgcc	tggttgttac	aggatgttac	agcttaggcc	tggggacata	420
gcccagcacc	ctccagargt	tgtgtctggt	ctttactctt	caggttccct	ggaggcagga	480
gaggartcgg	cctcatttct	ggcaggcacc	ccactactgt	tattgagcaa	tcctccaggc	540
tgcagagatg	tcagaggagg	accctaattg	ctcckgattt	tgattatttt	gttctttttc	600
cctaggtgtt	ttactngcag	ataccttgag	tacctgtgtt	gtatattcac	tttgaaagca	660
cacattttaa	tgttttataa	gaaaagggtc	taaagacatc	cattgatcca	ttcattcctc	720
attcagcaaa	tacctgttga	atacctgctg	tgtgctaggc	actgcggtgg	gcgagccaga	780
rggcttttgt	gctccaagga	rcttgcatte	tagtattcta	gttattttca	cgcactctga	840
ctatctggga	cagggaccat	tgcgttttgt	cgtatataaa	gcagcatgtg	tctgcactac	900
agttttgtgtc	cgtygcagat	gggcaaggat	tgagtgcata	aacttctggg	ccaaaagggg	960
ttggcttggg	tcaggctgct	aagtagctga	ggtgaaagca	tgtgccaccc	ctcctgatac	1020
agggatcctt	gctgattgtg	tgtgacacca	gggccttccc	atctgtcagc	tgggtttgtc	1080
ctcacagtag	ctega					1095

&lt;210&gt; 138

&lt;211&gt; 692

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 138

ggcacgaggg	gaatatgtgt	agctcagctg	ttttgaaaat	gatctgtttg	tagaaggcca	60
caaagcaaat	attattatct	taatcttatt	ctgaattttc	accactaaaa	ccacattcta	120
ttgaaggaat	atataataaa	agtgcattat	catatagtgt	cacaatgagg	gattcagggtg	180
cgaaggggaag	actcattcct	gtgaaaacat	agcccatccc	cagcagttgg	tagaaggatt	240
tgctggagtt	cctcctcttt	gtgtggccta	taaaacattc	catgaggcat	gtggcaatag	300
tcacaatgat	agtggcttta	tctcctccag	tcttagcatc	ctcactcaag	ccacctcttt	360
tcatagacac	atactttatg	tttgggaaga	ggtgctctag	gtgggacacc	cctgcctgct	420
ccaaataatt	cctactgaca	tccatggcag	cttcattcta	tctgagctgg	agattttggga	480
atttaggttg	gcacagaaga	aagaaggggt	ttggggcagt	gtcgtttgga	tgattttgac	540
agattcttcc	tgggggtaaa	gagagatagg	tgggtcta	catccaggga	ataaaatgcm	600
aaggtgtgtg	tatatggaaa	atccaaggga	gaggaaatta	aaattatccc	agatttgctta	660
tttaatatgc	aggaaactca	actttccatg	aa			692

&lt;210&gt; 139

&lt;211&gt; 748

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 139

ggcacgaggt	aaggtctgtg	ttccacagga	cgggacaagg	tcttagatgt	ttctcaatan	60
ataaggaatg	aatctctggg	ttggccaatc	ccgaactcat	tagctctgaa	ctcccaacac	120
acattcaggt	gcacttgcca	tacacgggtc	ttctcagggt	atgctcaagt	tattgtctatc	180
gggcacatct	gccctacaga	attccagcag	aaatacccaa	tgggagtggg	gggtctggaa	240
acaggaatgt	gggcagagct	gaagctgctc	tcctggggga	gggctgctat	tgctgtgtgg	300
gtgtgcctga	gaagagttag	taggggrgga	cacagtccac	cagcaggtca	aggtgggcag	360
ggagtttaagg	tccagtggga	aggagtgcag	ggatcaggaa	gtggccagcc	agaagacatg	420
agatgggaga	agctacatgt	gaggattctg	atgcagggca	tgcatggagc	cccacaggat	480

gacatcagat	ctgtccacgg	ctccacagca	tttctgact	gcctccatct	accctgcaga	540
cccacctgcc	ctgggggttc	ctttggatct	ggctgaccag	atgcccttgt	gggagcctgg	600
aggctggagg	agagtggatg	gtgagacca	ggcctccagc	tctcaccctg	ccaggccaca	660
gtggtcaggg	ctatcagggt	ctaagcccaa	actgaggtcc	aaggggagtt	ggtagggcagg	720
tggcgggtag	ctggaaaaca	cactcagag				748

&lt;210&gt; 140

&lt;211&gt; 1132

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 140

ggcacgagca	gctaccctta	tttgcagaca	tcctgagaat	gcaatatgat	gagcaacttc	60
tgtttcccca	atccttgctg	aaggtaaata	agattttattg	ttgccaaaac	tcttcaatct	120
acaaaatatt	tttttcttta	taaaatgctt	ttgggtctctt	gtttcatgtc	tatatatttt	180
ctaagccctc	ttcttctccc	attgcatggc	tctcctcacc	ctcactctta	cctttgtttt	240
gctgtttgca	ggacctcttg	gtctctgtca	gaaaagactt	gtaactttcc	aaatgaaatg	300
ttgcaacttc	ctatttttct	gaaatctatt	tactaaatgt	tatgcaagac	atgaaatttt	360
tgcctacttt	attccaccat	catttggttt	atgaaacaaa	caaacaaaaa	aatctctaaa	420
cctaacccaa	gtagaagatg	cttaacttta	aggaaacact	aggcaacagg	cagtatcatg	480
gggtgtcaca	ggatatgaac	aatggaaagg	tctcttgga	ctggaggagg	tgctactggg	540
aactagcagt	gctctctcca	tctctcaggg	cccaaccac	atgggtttcca	gtttctttga	600
ttctctctat	ctcctctttt	attctgctgc	tgctgcttgg	tcagtcctga	atcaaagagc	660
ccttgaaggc	cttttcatac	catggattag	ttaacgaact	ttctctctta	tagaacatga	720
aggatgtatc	actggatagc	taattggcca	attacctgtc	cttgtttaag	tatctttgtc	780
aaggtaggca	aggaaggcag	acaacgctga	acgcataggc	catgtgatgt	ggatcgaata	840
cggcagctgc	acaggcctct	cccattctcag	attgtgaaat	gattaattaa	tattttcagt	900
tagtaaaaga	aactgggggtc	agcaactcta	tgtgtgtgtg	tgtgtgtgtg	tgtgtatctg	960
tgtggggggt	tatatccaca	aatatctgta	tatttgatta	gaaaaccac	agagagatca	1020
agggtctctc	atatcctgct	aagttctgaa	ggattccccc	ataatgtgcc	cccacctact	1080
cactacccta	tcctccaatg	tcataactgc	aatagagatc	cacttccatc	tg	1132

&lt;210&gt; 141

&lt;211&gt; 1112

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 141

gtggcaaatg	gggtactcc	tgcttttact	tcttggttgc	tggaccata	tattttttac	60
aatggaatg	atattattgt	atcttgaagg	ccacccatt	cttaatgaga	tcctcttcat	120
tctgcacttt	taaagggat	tgcagcactt	tatcaggcca	gcagctttgg	ggtaatactg	180
tatgtggtag	gaactgtgga	tctttgtggt	catatgctgt	cattgtacct	cctattctgc	240
aaagtggat	ccttgttcta	agatactatg	tgagttttct	tgtagtgaa	tgagatactc	300
ctatgagtc	ttggatagta	atactggtca	aggcaccata	gacagcatag	gcaaatgtat	360
atagtagtcc	ccccttatgc	atgattttac	ttctgtggt	ttcaattacc	tatgggtcaac	420
cttgggtcaa	aaatgttaaa	tggaaaattc	cagaaataaa	taattcataa	gttttgtttt	480
ggttttgaga	cagggtcttg	ctccagccca	ggctggagtg	cactgggtgta	gtcatagctc	540
actgtagcct	ccaactcctg	ggcttaagca	gtcaagcctc	agcctcccaa	atagaactac	600
aggcatgtgc	caccatacct	ggctagtctt	ggctattttt	attttttattt	ttatagggat	660
gcagtcttgc	tatgttgccc	aggctggtct	tgaattcctg	gcctcaaata	atcctccac	720
ctggcctccc	aaagtgtctg	gattataggc	aaaaactact	gcacctggcc	ctaattcata	780
ggttttaaat	ggtgcactgt	tttgagtagc	acaatgaaac	cttgagctgt	cccattccat	840
ctggcctggg	atgtgaatca	ttcttcgttt	agtggctcca	cactgtatat	gctacccgcc	900
cattagtcac	ttaatagcca	tcttgcttat	cagaccaact	gtgagagtat	tgctgtgttt	960
atgttaagta	acccttatat	tacttaatga	ttatccaaag	cacgacagta	gtgatgctgg	1020
caattcagat	gtgccaaaga	gaaactgtaa	agtgcctcct	ttaagtgaag	aggtaaaagc	1080

tctcaacaaaa aaaaaaaaaa aaaaactcgt ag

1112

&lt;210&gt; 142

&lt;211&gt; 1084

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 142

ggtttggggg	catcacagac	tacacccgta	tgagaggatg	aacttaaattg	ataaattgtg	60
tgtgtgtgca	tgcattgtgtg	cgtgcatgtg	gactgttaca	ctcattgggc	cttctgctgt	120
ctctctccct	ctcctcagcc	ctctttattc	cctgggacac	agaaattttt	aaataaggcc	180
aatttaataat	cctacattgg	tctcttacgt	gttagagtga	aaagaagatt	cacatatctc	240
tcatttttaa	ttgaaagcta	gaaatgatta	agcttagtga	ggaagccatg	ttgaaagctg	300
agatagtcca	aaaactaggc	ctcttgccac	agttagccaa	gttgtgaatg	caaaagaaaa	360
gtgcctggag	gatattttaa	atgctgctcc	agtgaacaca	caaacgatag	gaaagcaaaa	420
tagccttatt	gctgatattg	agaaagtttt	aatggctctg	atagaagatc	aaaccaactg	480
caacattttc	ttaagcaaaa	tcctaattca	gaacacagcc	atagctgtct	ccaattctat	540
gaagacagag	cagagaggaa	gctgtggaag	taaaagttga	aaataagagg	ttgttcatga	600
ggtataagga	aagaagacat	ctccataaca	taaaagtgta	agtgaacat	caagtgcgaa	660
tacagaagct	gcagcaagtt	atccagaaaa	tctaagatca	ttgaagaagg	tggctacact	720
aaacaataga	ttttcaatat	agacaaaaga	gccttctgtt	gatttttaggc	atctagccta	780
aatggaaga	agatgccatc	taggacttta	atgggtagag	aggagaagtt	gatacctgtc	840
ttcaaagtaa	agactgactc	ttttgttagg	ggctgttgca	gctggtgaca	ttaagttgaa	900
gccaatgctc	attcaccatt	ccagaaatcc	ttgtgccctt	aagaattatg	ctaaatctac	960
tctgactgtg	ttctacaagt	agaacaacaa	agcctggatg	acagcatatc	tgtttatagt	1020
catggtttac	taaatatttt	aagcccactg	ttgagaccta	ctgctcagaa	aaaaaaaaactc	1080
gtag						1084

&lt;210&gt; 143

&lt;211&gt; 1050

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 143

ggcacgagct	tttcagcatt	tgatgggtgc	tgaccactcc	cactttcaca	gaaccctcat	60
caaacagcct	tctatgatcc	caaatgcaac	ttctatcac	atttttatgc	tcttcttctg	120
cctactcatg	aaaatgttgg	ggccatccag	gcttccattt	ttagccctca	ctttgtgcag	180
gtttataact	tattttcagt	tttgttatct	gatctctgac	tccagcccag	accattcctg	240
actccacatc	cacatatcca	tctggtttgc	tgaataactt	ctcttgatg	tacatgtgtg	300
ccttagactc	attatgtgca	gacatgaagt	catctttttt	ctctccagac	ctgcttttcc	360
tctcgtattc	ttcttttttg	tgaatggtag	aattattcag	atggaacgtc	caagtcaaaa	420
gtcgttctag	aatcctccct	cactccta	gtccatcca	attagtacc	aaatcctatc	480
gattcggcct	tctaaataga	gtcaaaacat	ttcattcaat	tcagcgtcac	tgctattgct	540
ttaatgtaga	ccttctctat	tttaccatga	tcaagcagag	gcctgtatc	tatattcttc	600
tgccctccag	tcttgtcatc	ctactccgca	gttaatcccc	tgagtgtat	cctagtgtac	660
cttctaacag	tacagatttg	gtcatggatt	ctccagcttg	aaatacttca	tgtcttttgt	720
gggaacatgg	atggagatgg	aggctattat	acttagcaaa	caaatgcatg	aacgaaaacc	780
aaataccaca	tgttcttact	tataagtggg	agctaaatgc	tgacaactca	tgaacacaaa	840
caaatgaaca	gcaaacactg	gggtctactt	gaggggtggag	tttgggagga	gggagagaag	900
cagaaaaggt	aactattggg	tactgaactt	aatacctggg	tgattaaata	atctgttcaa	960
caggcccca	tgatatgagt	ttacctacgt	aacaaacctt	cacatgtatc	cccaaaccta	1020
aaataaaagt	taaaaaaaaa	aaaaaaaaaa				1050

&lt;210&gt; 144

&lt;211&gt; 1113

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (349)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 144

gttgggtgttg	agcacagctt	taggcttaga	ttcttcatca	actaggagaa	gctgtgcttc	60
aatacagtta	ttcgtttgca	tggttcctaa	tgtgcttcac	tcaatttagc	agaatttttt	120
ttttaacctc	ttccttgacg	ctagctgctt	gtgcaaatca	catcttggcc	gcctactctt	180
cttcacttgc	tgacagatgt	gtaggtgaga	aaagtctcat	agtcattgtt	cctgaaagaa	240
gcttccagac	ccacttctag	ggccagtgac	atatgcagga	aatcagctgc	ttctgggcca	300
ggacagagct	ggcttttttt	ttagtggggg	atggcgggca	gtggggcgang	ggacattcaa	360
aattttatttt	ccaacagaca	gatagcatca	gcaggtacaa	ctacaagggt	atctacatag	420
atcatacatt	cacaaggcat	tattagtttc	acagtgagaa	agccactcgt	gggttttctg	480
taacaatatc	ccacttcata	gtgtaaacag	gtactatttt	gttcacttac	aattccggaa	540
ggaagggcac	accttgcagg	ggggaagaaa	aggggaatcc	taaagtaagg	tgcaacaatt	600
aagagacaac	actttggcta	acaatcttgg	atccacattt	cagtcagggc	cttccacata	660
gaggggaaag	acttttctct	cagaagttag	aatctttctt	cctcctttct	tgtaaactg	720
agagcagtgt	tttgtttgct	caatattaca	tgtacaaaag	gagattagaa	gaaaatgcat	780
cacaaaacca	tcttgaacgt	tcagctcttc	ctgccaatat	atcacaaact	ttagggttta	840
gacggggcct	gggaatacgt	aagtgttttt	tctttttttt	ttttttaagt	gaaagcaagt	900
ttattacgaa	agcaaaggga	taaaagaatg	gctgctccat	aggcagagag	cagcccagta	960
atcttaaaat	aggaaaatag	acactatggc	tacaaaaaat	aaaaaataaa	tgaggtagat	1020
aaaattttca	cacccaggac	ttgcctgttc	caacttcata	gtcttcatga	aatattcatc	1080
aagaagacaa	aaaaaaaaaa	aaaaaacctc	gta			1113

&lt;210&gt; 145

&lt;211&gt; 685

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 145

ggcacgagca	cttcttgaaa	taaaaggagg	ccgcttacaa	gaaataaatg	atgtatgtgc	60
aatctgctat	catgagttta	caacatctgc	tcgtattaca	ccgtgtaatc	attattttcca	120
tgcactttgc	cttcggaaat	ggctgtacat	tcaagatact	tgtccaatgt	gccatcagaa	180
agtatacatc	gaagatgata	tcaaggataa	ttcaaagtga	tctaacaaca	atggatttat	240
tccacccaat	gaaactccag	aggaagctgt	aagagaagct	gctgctgaat	ctgacaggga	300
attgaacgaa	gatgacagta	cagattgtga	tgatgatgtt	caaagagaaa	gaaatggagt	360
gattcagcac	acaggcgcag	cagctggaag	aattttaatga	tgatactgac	tgatgaaaat	420
agcattttatt	aatgatttgag	gtattttgtt	aaaattcagt	tcatccaaaa	tgagagtaata	480
tccttcacct	tcagtgtgta	accaagcaca	aaaacagtat	caatgttgaa	tctgtgaatg	540
gttttccgtt	tactgtgatg	tgctactgta	aatatacctc	tttaattact	tctggtctct	600
ttggtgacct	gtttaaattt	gtgtacatta	ttgtacatag	aataaaatgt	tttcacattt	660
ttatgacaaa	aaaaaaaaaa	aaaaa				685

&lt;210&gt; 146

&lt;211&gt; 1038

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (743)

<223> n equals a,t,g, or c

<400> 146

ggcacagtga	agccatctat	tgacaaatgg	aggagaatga	tgaaaagttg	taagatgttt	60
aaatatTTTT	ctattattca	tgattattcc	taaattttat	cttttcaaac	tgttgctact	120
acttcagaag	attacacatt	ttatctgtgg	caagacactg	aacaatttaa	atttttaggtg	180
tgaatcatat	ttcctgtttc	tgtacctcta	ttgtgcatac	atattatact	aattcttaac	240
aggaaaaaat	acttttttck	tttttatctt	tgtacttttt	tttgaagggt	ttaatttggt	300
ttagagatgg	aataaaaaag	ctgtgatgat	atataatcct	aataataaaa	ttacttgatc	360
aacggttttg	aaaaataccc	ttwaaaaata	atagggcatg	gtggctcata	cctgtaatct	420
cgtacttttg	gagggcggaag	tgggcggatc	acctgaggct	ggctctgaac	ttctgrgctc	480
agacaatctg	tccacctcgg	cctcccaaag	tgtctgggatt	acaggcatga	gcccactgca	540
cctggctgtt	atgtcctttt	gatgaatcaa	ctctttcata	attataaatg	actcttttta	600
tccctggtaa	tgtcctttgt	atagaaatct	tttttttttt	tttaaataag	aaacagagtt	660
ttgctcttgc	aggctggagt	gcagtggtgc	agtataaatt	aactgcagtc	ttgaaactct	720
ggccacaagt	gatcctcctg	ccnyggctca	tacctgtaat	cccagcactt	tgggaggccg	780
aggtgcgcg	attgtctgaa	gtcaggagtt	tgagaccagc	ctggccaaca	tggtgaaacc	840
ccatctctac	taataatata	aaaattagct	gggcatgggt	gtgggcacct	gtaatcccag	900
ctactcagga	ggctgaggca	ggagaattgc	tcgaaccggg	gagggcgagg	ttgcagtga	960
ccgagatcac	accactgcac	tccagcctag	gtgacagagt	gagactctgt	ctccaaaaaa	1020
aaaaaaaaaa	aaactcga					1038

<210> 147

<211> 851

<212> DNA

<213> Homo sapiens

<400> 147

ggcacgagaa	caaattgata	gtgagcatta	aggggtttcca	agttggattt	gtaactcctc	60
atcattccct	gtatgacaac	tttctgaata	tatgtcacta	tgtagtataa	ttaaactactc	120
caaactcatc	tttctgttgt	tagaagtttt	cagcggtaact	tccatgcaac	tttaaactctc	180
actgctctct	atgggttgatg	tcaaattgacc	ttcagtaatg	actgagaatt	gaatacaaat	240
agattacaaa	gccccaaattt	gatgttaaat	gactcaggaa	attttagttg	tattttcaat	300
tcaagtactt	agtagcctac	gtttgtcttg	cctctggttc	tttatggaaa	ataggctttg	360
tagtggcatt	gtggagcaaa	ggagactgtt	acaccttaat	taactttttt	tactgatgca	420
aataatttga	ggatagagag	gaggggaagta	gtgaaagcta	tgacctaaaa	cattggggacc	480
aaatagaggc	tcacagatat	ttggattatt	ttatgtgctt	attattaaat	aaggaaagca	540
ttttgtgata	tgtggaagac	gctatgtgaa	gttttaccta	tcttctcaaa	gaccttttct	600
tttgtatttt	cttttggtgt	ttcttaaagc	caaacaaaga	aatgttctta	aggagacagg	660
gtgggttttt	ctgtgggcct	ttgttggttt	ttctgtkggc	catcgccctc	taatggaatt	720
gatctctggc	tgtttgattt	ttttcatatt	gtatttttaa	aatttgttgt	acagtgcctt	780
gtgagcacca	agtaccacta	gatgaataaa	acgtattata	tctaaaaaaa	aaaaaaaaaa	840
aaaaactcga	g					851

<210> 148

<211> 614

<212> DNA

<213> Homo sapiens

<400> 148

ggcacgagcc	aatateccact	ctacccagct	gggccccag	tetacaaccc	tgcagctcct	60
cctccctata	tgccaccaca	gccctcttac	ccgggagcct	gaggaaccag	ccatgtctct	120
gctgccccct	cagtgatgcc	aaccttgagg	gatgccctca	tctgtacct	gcatctggtc	180
ctgggggttg	caggagtctt	ccagccacca	ggccccagac	caagccaagc	cctggggcctt	240
actggggaca	gagccccagg	gaagtggaa	aggagctgaa	ctagaactat	gaggggttgg	300
ggggaggggc	tggaattatg	ggctattttt	actgggggca	agggaggggag	atgacagcct	360

gggtcacagt	gcctgttttc	aaatagtccc	tctgctccca	agatcccagc	caggaaaggc	420
tggggcccta	atgtttgtcc	cctctgggct	gggggtggggg	gagggaggag	gttccgtcag	480
gcagctggca	gtagccctcc	tctctggctg	ccccattggc	cacatctctg	gcctgctaga	540
ttaaagctgt	aaagacataa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	600
aaaaaaaaaa	aaaa					614

<210> 149  
 <211> 1200  
 <212> DNA  
 <213> Homo sapiens

<400> 149						
ggcacgagga	gagagaagat	gatgaaaaga	ctgttgatga	ccgaactgtg	aaattctccc	60
cttgtcacct	ggaagatggc	atggtgcctt	ctgtccgtct	tctttcttcg	ggctttgtgt	120
gctcactcta	gcacagcata	caagtgtgtg	ctttgttcgc	ccaggctctcc	atggttagtt	180
gaagccaatt	tctggcttga	cttttatggg	aaaagttatt	ttatgtctcc	taagcattag	240
agtttttcta	ttactctatg	tagttgagac	aggatttgat	aagtctagga	aaagaaagat	300
gggaaaacgg	gattcccttt	cagaagtacc	tgtgtgtatc	tgttaataac	cacaggggtt	360
aatatgatgt	aggatctttt	actatcaatt	tcaaccattt	gattttgtat	gattgaaact	420
tgcaccgagc	tttgactggt	tgttaaagag	tcatttttaa	tgaaagaata	attctttatt	480
gctgggtttt	catttacact	gataaatata	cagatcttaa	taaagtcttt	aacattcatt	540
tgtattcaga	tgtgagtaga	agaactaaaa	aaagaaagtt	acatatcact	atgactgaag	600
gtacttcagc	ttaatctgaa	atataattta	acttgtgaac	tccttggata	tgatattatt	660
tggaataaac	agaatttatc	attgaaccca	aagtaggaaa	tgatagctta	cattgtctaa	720
aaatccttac	aaggttaaga	tgattcaata	tcaagaatat	tcagaaaatt	atttctaaag	780
ttgatcgatt	catgtcgtat	tgatagaatc	ttgaccagaa	gaaattttgc	tctttttata	840
tagtttcaag	aaatgtgttt	ttaaattttt	attaatgcac	ttgaacaact	ttgcaggaat	900
aaagcaaccc	cctaaccaca	aaatatccct	ctaaattagt	tccttagctt	tctcaatgaa	960
tacacacata	tttttacata	gctatgatcg	ttgtgtacat	tctcctttgt	tttacttctc	1020
ggcctaacac	ttgtctcttc	ttgtcaacac	agattctact	ctcaccaatt	taaatgtctt	1080
tatatccatg	ttacatgggt	aacctcactt	caccccatta	ttagatattt	gagttatata	1140
taattttttca	ctcttataaa	tagtgctgct	atgaatgtct	gtaaaaaaaa	aaaaaaaaaa	1200

<210> 150  
 <211> 683  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (41)  
 <223> n equals a,t,g, or c

<400> 150						
gggagaatat	gttagaagaa	aatatctacc	ctgagacagg	naaaaacaag	aaaatgacat	60
atacagaaaa	gagcatatga	gacacaggaa	ctggtagtaa	agtctatgaa	aggctgttgt	120
ctctcaccta	gtgttgggcc	taaagttgct	gcagtcagaa	aggcctgcag	ttaaaaggaa	180
aagttgggatg	tcaagtggga	aatactgaga	agaaaagttc	tcagaggaag	caatatccctc	240
cctaaaaacc	aggaactttc	gaacaactca	aggggccact	ttcagggtcaa	gtgctgaaag	300
gcaatgcaga	tgacagttgt	atgggtatgtg	attactgcaa	tcatttggtg	gagaatgagc	360
atgtgtgaag	ccctctcaca	gaattgcttc	taatcctaaa	atgtatctca	ctgtgatgaa	420
aaacaatcaa	agtacagttt	agactaaggg	atgtgtcctc	aagtttagca	gactcttaaa	480
cacttacttc	tagttgtagc	ttgattatct	cattttgttt	ttctttttct	tgacttctta	540
gctttgcatt	taactctgaa	atttccatct	cctttttctc	tattagttct	ttgtgctttt	600
cttcatttaa	ttcaactgaa	taaaatgaaa	taaataaaat	tcatttgtta	aaaatttcaa	660
aaaaaaaaaa	aaaaaactcg	tag				683

<210> 151  
<211> 827  
<212> DNA  
<213> Homo sapiens

<400> 151  
gggcacgagc ttgggacctca agtgattctc ctgcccctcag cctctcagga caaccccagc 60  
tctgtcatcc acgtgggtgaa tcagaccaat gcccaaggcc agcaagagat tgytyamtat 120  
gtgctgtctg aagcggcacg agcctcccc agcccctgag ccaccttcag ggggcatcat 180  
ggaaaagctt caaggaatag ctgaggagcc agagatccag atggtttgaa ggccgcagag 240  
ccagaccatt tcttccccag gtcctgaagt ttgagccagg caagtggcag tgcccctagt 300  
gggcagccgt tgccaatgga tgcctttagg agtgggtgccg agagcagtgt ggtccactct 360  
ggcctgggtt tgcattcatc tgcagactct aaagacttcc cttttctgcc agactacatt 420  
ttgtggggag cctgaggact ctggattctt tgaggggagc ctggatgtgt gtgttcttgt 480  
taaagaggct gttatcaggc ttaaccataa ccctcaagat ctgcttgaca gtgattaaat 540  
ccttagctca catccattcc catctttcgg gctccttagg cccaaggatg gcatgtgact 600  
ggtccctgca agggctcctt ctttgtcacc agccaaggca ttgataacca agtagccatt 660  
ttcctcttaa ggtttctctt acaaccccaa ggactttcat gattatcctc agggacagga 720  
ttggaggcat tgagcgtgtt tattaacaaa ttgtttttgg taataaaata aatgcttgga 780  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 827

<210> 152  
<211> 835  
<212> DNA  
<213> Homo sapiens

<400> 152  
aaaatatttt ggtagtaatt taaaatacaa gaacgaatat ttattttgtcc acagttggag 60  
atgttgagata aatgtctttt ctcaaagatc acaggacttt tgtctttcat ttttgcttt 120  
ttatttacca tttataaaag atctggtctg gattatggaa tttaatgttt atcagctcta 180  
tgtattcctt tatagaggct tgaggaagta tttcacataa catgttttat aatacttaac 240  
catttatcca aagatatatt tacattgggt tgtgcccctt tcccttagat catggtaaat 300  
ttttcttatt gaggtaatta tgtactactt atatttgaag gaagcttatg acattttaca 360  
gtagctaaaa tgttgagatt agaggctact ttactattct tctcaaagg aactgatcag 420  
ataattaccc aaattattca agaaaataga tcagaaataa agaacaacat aattttctaa 480  
gaattcattg aaatttatgg aatcagctct cgcaactgcc atctttgcag ttttgaaaaa 540  
gaaattgctt aatcacaaat gttctacagt ctttaaagt agtagaatta gacagtgaga 600  
tcatctgagt aaattgattg gtgattccag agataagact aatattttta attatttatg 660  
atactgatta gtataaaaac gtactcatca cagaatttga agcaaaatac atgtacactt 720  
caaagagtaa atgacaaatg tataaatgct gtagctcagg attatatgta cttttaaaaa 780  
tacactaata aagattattg ttcaaaaatt aaaaaaaaaa aaaaagggcg gccgc 835

<210> 153  
<211> 558  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (27)  
<223> n equals a,t,g, or c

<220>  
<221> SITE

&lt;222&gt; (39)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 153

cgggaccgga	taacaaat	taacaaat	caccccngga	aacaggctnt	gccccactag	gcttttggca	60
aaaaagctat	tttaggttgc	cacttttagga	ggtacgcctg	gcaggtaccg	ggcccgga		120
ttcgcgccg	cgtccgactc	atgactgtgt	tggcacttta	aaaatattga	tatcccacaa		180
taaacagggt	tatcattgat	ataatttccc	acataatttta	ctataaataa	tcgagtaaca		240
acctgtcttg	taccattctt	tacagaaagg	cttttctcaa	tgcgttagtc	agggtttctt		300
cccggggaga	aaattttataa	tccttaatga	ggccagtagt	cagaaggaca	tttctgctta		360
ctcttttctc	tgtaattgcc	ctcactaaaa	taaagcatga	cttttttatc	atgtgttcac		420
acatgcagtg	catccctaga	gtttttctga	agcatgaatt	caataacata	taattagacc		480
tgattctgag	aagattttct	cttcttcgtc	gacgcggccg	cgaatcccgg	gtcgcagagc		540
tcactagtcg	gcggccgc						558

&lt;210&gt; 154

&lt;211&gt; 1201

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 154

ggacatttgt	aaccctataa	acactagtaa	attaaaaaca	gaaggacctt	tatgtcctaa	60
catatctgtg	ttgtgaaagg	ctgccctgtg	aaatacggga	tttcttaaac	atattttaaa	120
aatcataggt	gtcaatat	tttagaaatc	catttaaatt	ttctctgtt	attttacaat	180
gcctatttat	ttatatagtg	gctctgctga	ttttgatgta	tatcctaaag	tttatatttt	240
ctttaaagga	tgttttatac	aactttatgt	aaaatgtttc	agtatcttca	cattctctcc	300
ctgtcctttt	gtttttgctc	tatatgggtg	tctgagtctt	ttctctggct	ttcaaacctt	360
gtaagactaa	gacactaaag	taactttgcc	cgaggtttgg	gtaatgcctk	cyaaakcaca	420
tcctaagctc	tcgtgcatac	aggggcctcc	tttgagctct	gtgcttttga	gatcccatat	480
acctaaatc	cagtactcca	aatcagtagt	gctcagtttt	agtgactaag	tttaaaaatg	540
tattttaata	rcaagttagt	ttagtgccct	cttgcttctt	tctcgactgc	ttgtatacat	600
gtatatccct	ttaaatgaat	cttggaat	atttagaaat	attaaattat	actaatgaaa	660
ctgtatat	ttgkgaatc	ataagtgaat	ttggaaagaa	ttgtcttta	tgaaactaaa	720
tcctttttat	tcaagaatca	tatgtgtctt	tatatattat	ccagtctaca	tttatatcac	780
tgagtaata	tatagaaatg	tggatacata	cagctgtagt	tacagataca	aatatagata	840
taacctgtta	aatctatatc	tatcccatat	aacatatata	catgtaatat	gtgtgtgttt	900
atatatatat	gtttatgtca	ttaaagagct	cccttaatat	ttttctttta	tttcccttat	960
aatttgaggt	tgagcttgaa	ttttccttgt	ataaacaagc	aaatatattat	actagtttta	1020
atactgatgt	ttagacattg	tatcttat	tagcgtgaa	tattttcaca	attattataa	1080
atattatcta	atactaataa	tgtacctgtt	aaaaatattt	aaaattttac	ctttgaatta	1140
ttttattgtt	gaattaaaat	tcctttaata	tgataaaaaa	aaaaaaaaaa	aaaaactcgt	1200
a						1201

&lt;210&gt; 155

&lt;211&gt; 1026

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 155

gtctaaatgt	tcagtttttc	ttcctaattc	caatgattct	cctcatttct	caatgtcctt	60
tgteccatctt	tgctgtccca	tttgactgc	ctcccaaagg	tcactgtggc	tccttctctg	120
acttccacag	tcaagttaca	cttcataaaa	attctaagct	cattttcaga	agccacaaat	180
ctatccttct	ttaaagtctt	caaactttga	ttgtgtaaat	aaatactcag	aaacaagatt	240
tctaaaaaac	aaacactatt	ggccatcgta	tgttcaaagg	agataacaaa	tgtttaacct	300
tatatgttgt	aggctttcta	aacttaattt	caaaaaaaga	ctaaataaac	agtgtcaata	360
tgtctataaa	ctcacaacga	aaattttcag	atcatccaat	tgtgtattca	ttggccggaa	420



acaatcatgt	aaaaaccaca	gccctggagc	tgggtagcat	agaaacaaga	agattcagca	480
tttcatgggt	ggtgactcaa	atctctaaag	ggktgtcagg	ttaaaaaaaa	aaaargaaaa	540
gaaaagaata	gaaatttgac	ctgatctata	aaaatgaaag	tcgctgggca	aagttttggc	600
ttttcactcc	tgacaaagat	gagctctctc	ataggttagac	caaggcacac	gagtgatgac	660
tttcgtggcc	ccaaaattct	tcaagaaaat	agtagattga	ggaagcgatc	tgcgcatgga	720
tagaggtgct	gtttgaactg	gatgacatct	aagcttcctt	ctttctccaa	gattctgtga	780
ggccatgaag	catgctatct	catccccact	ccaattgctg	tctccctggc	ctgggtgccct	840
taccacctca	atcttgggtc	actgatctct	tttgcaagaa	atcagtcctg	cctaccacct	900
gcaacttcat	cttcctaaaa	tgtcactttc	cttaaggcct	gctctgttca	aaggccagtt	960
cccagccaca	ccaatgtaaa	ctcgtgcccga	attcgatatc	aagcttatcg	ataccgtcga	1020
cctcga						1026

&lt;210&gt; 156

&lt;211&gt; 904

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 156

acccacgngt	ccggagtata	cttaattttta	tttatgtata	gaatatttgt	atttattttt	60
tggacatata	tttatcactt	tgtcattttt	tttaaccaat	ttgagaaatg	ttagctgctg	120
aattaatttg	ttgcccggagc	cttcataattt	tcttcttttg	tgcttctctc	ctgtggcaat	180
gtactgttct	cacaatgcct	tttaaaaaatg	ttccatactg	tattagcatc	cttagaaggg	240
acagaactaa	gaaatacatt	gctcaaataa	tattttactt	tattgataat	gacaaagaat	300
atttttttaa	ccccatcaaa	atagatttca	attgactgtt	tcccctacat	cttttgagcc	360
acagtcgccc	atcgaaataag	caaatttggt	tttgagaata	aactggtaac	cagtttgtga	420
tgactctcag	aagccttttg	gctgggatac	agaagagttt	ctaagttcct	agagagccat	480
tttaataatta	gttgggtgagc	cagaggcttg	acagagctgt	tacttatgtg	tgagggcttt	540
attctcaggc	agtagtttat	tcattcatttg	gtaagccccct	ccccacactc	ctctaattta	600
aacaagtagt	gaaggcttat	cttaaaactgt	gtagtacctt	agacttggca	tttatttttg	660
atagagcaga	gataaaaatat	tttgatggaa	ggaaatcaat	tttctgtaac	tgatgatgtg	720
aaaattttat	tttctgggaa	attatatagc	cattcaaaaa	ttcaaagtat	gttatttatga	780
ttgggttaca	gagaataatg	ttacatgttt	aattgtaata	tttgtctcct	atcattttct	840
tccctttcag	tcataataaa	tgattttaca	aacccaaaaa	aaaaaaaaaa	aaaaaagggc	900
ggcc						904

&lt;210&gt; 157

&lt;211&gt; 916

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 157

gtttgtgtaa	ccatgttctt	cagaatgcag	gtatgtgagc	atcatggttt	ctgggtaatt	60
ctgctgctcc	tgtctttgaa	aatggagata	ccacttgagc	cttatccac	tgctgagtat	120
tccagcattg	gtagtgtttt	cactccattg	catccatcca	gaactttcac	acaggcctcc	180
ccattaccca	gcatttttta	acattgatca	ataaggccta	taaccagatt	taggctagca	240
acaccagagg	tctgggggca	aggggtggaa	ttgactttac	attcttagta	gctaatatct	300
cataagtgtc	ttatatatat	attgttggtt	ttgatcatct	attcaaaaaa	tatatattga	360
gcagctgctg	tggtataggc	tctgtgctgg	ccagtgaaga	tacatgatta	acaatgttgt	420
gcttgcttgg	ttcacagtcc	tgtgggtaca	tggtggagta	aaataagtac	aattaatttc	480
tcagagctgt	gcacagcaac	acacagaagg	agagataact	caccagctt	cagaggggtg	540
ggacagagaa	tgagggttagc	ctcccagatg	tccttgctgt	agtttttagct	gttttcaggt	600

gttgataaaa	gctccaggag	ctggcaggag	gagagcagag	gaagctagag	cttacaaagc	660
acaaaggcca	tgacagcatg	ccagacgggt	gaaagaggac	aggggaaatg	taggcaagtg	720
tctcttctca	gaggatgtta	tatactatgt	ttaaaagtgt	tgatctgctg	ggcacagtgg	780
ttcacgcatg	tagtgtcagc	actttggggg	gccaagggtg	gaggattgct	tgagctcagg	840
agtttgagac	cagcctgggc	aacatagtga	gaccccatct	cttaaaaaaa	aaaaaaaaaa	900
aaaaaagggc	ggccgc					916

&lt;210&gt; 158

&lt;211&gt; 921

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 158

ggaactgctg	ctcatggaac	tggctcctct	cctcttgcca	cttgagtctg	ttcgagaagt	60
ccagggaaga	acttgaagag	caaaatacac	tcttgagttt	gttgggtttt	gggagaggtg	120
acagtagaga	agggggttgt	gtttaaaata	aacacagtgg	cttgagcagg	ggcagaggtt	180
gtgatgctat	ttctgttgac	tcctagcagc	catcaccagc	atgaatgtgt	tcgtaggggc	240
tttgagtgtg	gcgattgtca	tattctgttg	gataacaatg	tattgggtgt	cgattgtcat	300
ggggcagggg	agagggcagt	acacctggag	gaccattttg	tccacatcga	caccatcagt	360
ctgctcttag	aggatgccct	ggagtattcg	gcgttgattg	cggggcaccc	gaaatcagac	420
ttgccacctg	gactgtcgag	gtgcagaccc	tgggagcacc	actggcccat	ctcttacaca	480
ggctgaccga	tttctcctgg	tgttcagagt	ctgtttttgt	ctagcaccat	ttgaaatcgg	540
ttatgatgta	gggggaaaag	cagcagcctc	gaagcctcat	gccaaactctg	ggcagcagca	600
gcctgtggtt	tcctggaaga	tggatgggca	gagaataggg	aaggaagatc	atgcttttcc	660
ctactaactt	ctgtaactgc	atgtatgata	cattattgca	gaggtaagag	atagttttaat	720
ggatttttaa	aaacaaatta	ctataattta	tctgatgttc	tctagtgtgca	ttttgctgaa	780
atgtagtgtt	gttctaaatt	ctgtaaattg	attgctgttg	aattatcttt	ctgttgagaa	840
gagtctattc	atgcatectg	accttaataa	atactatgtt	cagttaaaaa	aaaaaaaaaa	900
aaaaaaaaaa	agggcgccgc	c				921

&lt;210&gt; 159

&lt;211&gt; 804

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (800)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (801)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 159

aagaaaaactc	tagaagtctg	gatgtcgggtg	ggcctctgag	atatgccgtt	tacggttctt	60
cttcacaggg	ccgctgagtc	acttcttcta	cttcttcattg	gaacattgga	tccctcctga	120
gggtccccctg	gcaggggtca	ggaggcttct	cctggaccgc	ctcgtctttg	caccggcctt	180
cctcatgttg	ttcttcctca	tcatgaactt	tctggagggg	aaagacgcct	cagccttcgc	240
cgccaagatg	agggggggct	tctggccggc	gctgaggatg	aactggcggg	tgtggacgcc	300
actacagttc	atcaacatca	actacgtccc	tctgaagttc	cgggtgctct	tcgccaacct	360
ggcagctctg	ttctggtatg	cctacctggc	ctccttgggg	aagtgaacgac	cgctgggaga	420
acatcaggtg	cactgtggac	gtgggtcttg	gggtctcacc	cgcccagcga	gagcagaacc	480
aatccagtc	ggatgtcact	gactctaaat	caggtgatcc	aagatgccca	aaaatgatgg	540
atagagaaac	agaaatctct	gaatgtcaga	accctgtctt	ttaaaaaggc	agtcrcctgcc	600

```

ttcaggtggt gctgccccag aaacttaaaa tttagtcgag gcagtttcaa ttgttactgt      660
ggaccgaatt aggatcacaa taaacgataa tgcaggttct tcaaaaaaaaa aaaaaaaaaa      720
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaactc gagggggggc ccgtacccaa      780
tcgccctgat gatgatctgn ncac                                           804

```

<210> 160  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (24)  
 <223> Xaa equals stop translation

<400> 160  
 Met Tyr Gly Cys Val Cys Val Cys Ile Tyr Leu Tyr Thr Cys Ile His  
 1 5 10 15

Gly Cys Pro Cys Val Ser Met Xaa  
 20

<210> 161  
 <211> 113  
 <212> PRT  
 <213> Homo sapiens

<400> 161  
 Met Gly Ser Trp Cys Ile Cys Thr Leu Leu Leu Leu Leu Thr Asp Gly  
 1 5 10 15

Gln Gln Gly Phe Tyr Pro Gln Pro Phe Gln Ala Ala Pro Gly Arg Gln  
 20 25 30

Gln Leu Trp Gly Gly Thr Asn Pro Trp Ala Val Leu Ile Pro Glu Ser  
 35 40 45

Phe Leu Pro Tyr Thr Leu Thr Val Asn Tyr Ser Pro Ser Cys Asn Phe  
 50 55 60

Glu Phe Tyr Leu Pro Lys Met Arg Leu Ala Tyr Ile Cys Met Ser His  
 65 70 75 80

Ser His Cys Pro Tyr Leu Gly Arg Asp Ile Ile Ile Thr Leu Leu Asn  
 85 90 95

Tyr Cys Ser Ser Phe Leu Ala Glu Leu Leu Ala His Leu Val Tyr Ile  
 100 105 110

Ala

<210> 162  
 <211> 45  
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals stop translation

<400> 162

Met Thr Lys Arg Arg Lys Pro Arg Tyr Arg Phe Ile Phe Ala Leu Tyr  
1 5 10 15

Ala Leu Arg Leu Val Phe Leu Phe Arg Ala Val Thr Asn Thr Asp Ala  
20 25 30

Ser Arg Leu Arg Ala Lys Arg Gly Glu Cys Pro Tyr Xaa  
35 40 45

<210> 163

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals stop translation

<400> 163

Met Thr Glu Gly Leu Leu Ser Ser Leu Ser Leu Leu Leu Tyr Leu Leu  
1 5 10 15

Thr Trp Leu Leu Met Leu Ser Lys Lys Leu Tyr Val Gln Met Ile Phe  
20 25 30

Cys Tyr Asn Pro His Phe Ser Gln Met Asp Ala Cys Asn Gly Thr Ser  
35 40 45

Gln Lys Ile His Asn Ala Arg Gln Cys Thr Xaa  
50 55

<210> 164

<211> 118

<212> PRT

<213> Homo sapiens

<400> 164

Met Cys Tyr Leu Leu Leu Leu Leu Ile Gln Thr Ala Glu Leu Leu Ile  
1 5 10 15

His Pro Gln Gly Leu Gln Ala Val Ser Asn Gly Glu Ser Ala Leu Lys  
20 25 30

Gly Thr Arg Pro Thr Phe Ser Ser Pro Phe Ile Leu Val Thr Glu Gly  
35 40 45

Arg Lys Glu Trp Glu Gly Val Phe Leu Ser Ser Gly Trp Lys Gly Asn

50

55

60

Thr Leu Ser Asn Tyr Tyr Ile Ser Leu Val Phe Tyr Tyr Ser Arg Ile  
 65 70 75 80

Leu Gln Pro Tyr Phe Tyr Cys Leu Trp Gly Lys Leu Glu Met Val Thr  
 85 90 95

Leu Ile Arg Ser Val Trp Arg Gly Ile Asn Gly Gly Asp Lys Ile Ser  
 100 105 110

Val Gly Phe Gly Lys Cys  
 115

&lt;210&gt; 165

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 165

Met Cys Ser Gly Leu Leu Ser Met Thr Phe Ser Phe Leu Leu Glu Phe  
 1 5 10 15

Cys Ser Val Ala Gln Arg Leu Arg Leu Ala Asp Ala Arg Thr Ser Met  
 20 25 30

Gln Asp Ile Leu Lys Trp Phe Ser Asp Tyr Thr Leu Arg Ala Asp Ile  
 35 40 45

Ser Lys Ser Arg Asp Leu Xaa  
 50 55

&lt;210&gt; 166

&lt;211&gt; 127

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 166

Met Gln Gly Ser Asp Ala Gly His Gly Gly Thr His Ile Tyr Arg Ala  
 1 5 10 15

Leu Val Gln Trp Pro Leu Ala Trp Val Phe Tyr Leu Ser His Ala Lys  
 20 25 30

Thr His Trp Gly Glu Glu Leu Arg Phe Ser Phe Arg Arg Lys Asn Leu  
 35 40 45

Arg Leu Arg Glu Ala Met Arg His Glu Thr Cys Gln Val Thr Gln Leu  
 50 55 60

Val Ala Gly Lys Ala Asp Ser Asn Leu Cys Leu Arg Asp Ser Glu Thr

65

70

75

80

Trp Phe Trp Pro Pro Leu Trp Ala Ala Cys Ser Ser Leu Gln Ala Thr  
85 90 95

Ala Cys Arg Leu Ser Ser Pro Ser Lys Gly Leu Gly Ala Ser Arg Glu  
100 105 110

Cys Pro Trp Leu Ala Ser Gly Arg Ala Ala Leu Val Ser Phe Leu  
115 120 125

&lt;210&gt; 167

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 167

Met Gly Val Glu Gln Tyr Ser Tyr Leu Phe Leu Thr Cys Val Phe Met  
1 5 10 15

Cys Val Ser Leu Gln Trp Lys Ser Thr Gln Pro Trp Val Gly Asp Xaa  
20 25 30

Thr Cys Met Arg Lys Gly Ile Thr Gly Thr Glu Val His Arg Thr Asn  
35 40 45

Ala Leu Phe Thr Phe Trp Cys Ser  
50 55

&lt;210&gt; 168

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (73)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 168

Met Pro Ser Ile Arg Leu Gly Leu Ser His Leu Phe Leu Thr Ala Gly  
1 5 10 15

Ile Tyr Cys Leu Leu Leu Cys Ala Arg Cys Cys Ala Leu Gly Arg Gly  
20 25 30

Thr Ala Trp Ala Ala Cys Pro Gly Gly Ala Cys Gly Leu Met Gly Glu  
35 40 45

Ala Asp Pro Ser Pro Pro His Cys Gln Gln Gly Gln Gly Lys Ser Thr  
50 55 60

His Arg Gly Leu Ile Pro Tyr Val Xaa  
65 70

<210> 169  
<211> 70  
<212> PRT  
<213> Homo sapiens

<400> 169  
Met Thr Pro Gln Asn Leu Arg Phe Thr Leu Phe Gln Phe Cys Tyr Ser  
1 5 10 15

Leu Tyr Leu Glu Leu Glu Leu Gly Phe Arg Ser Leu Ser Gln Glu Val  
20 25 30

Thr Arg Glu Trp Cys Leu Ser Tyr Phe Phe Leu Ile Lys Val Cys Trp  
35 40 45

Gln Val Pro Val Ser Glu Phe Leu Leu Val Lys Glu Asn Pro Phe Leu  
50 55 60

Leu Leu Glu Lys Lys Leu  
65 70

<210> 170  
<211> 80  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (80)  
<223> Xaa equals stop translation

<400> 170  
Met Pro Phe Ile Leu Leu Leu Val Cys Leu Thr Ser Leu Pro Ser Arg  
1 5 10 15

Gly Tyr Asn Glu Lys Lys Leu Thr Asp Asn Ile Gln Cys Glu Ile Phe  
20 25 30

Gln Val Leu Tyr Glu Glu Ala Thr Ala Ser Tyr Lys Glu Glu Ile Val  
35 40 45

His Gln Leu Pro Ser Asn Lys Pro Glu Glu Leu Glu Asn Asn Val Asp  
50 55 60

Gln Ile Leu Lys Trp Ile Glu Gln Trp Ile Lys Asp His Asn Ser Xaa  
65 70 75 80

<210> 171

<211> 42  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals stop translation

<400> 171  
Met Lys Ile Leu Ile Leu Phe Ile Phe Ile Pro Gly Leu Leu Val Glu  
1 5 10 15

Lys Asn Gly Pro Asp His Val Cys Val Cys Met Cys Val Arg Val Cys  
20 25 30

Val Cys Ala His Leu Gly Leu Phe Ile Xaa  
35 40

<210> 172  
<211> 131  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (44)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (66)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (78)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (94)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (102)



<223> Xaa equals any of the naturally occurring L-amino acids

<400> 172

Met Trp Ser Val Ile Arg Ser Leu Cys Pro Ser Arg Leu Gln Ser Leu  
1 5 10 15

His Val Cys Phe Cys Pro Arg Leu Cys Leu Ala Val Pro Cys Val Phe  
20 25 30

His Leu Ser Ser Pro Trp Phe His Val Arg Xaa Xaa Phe Phe Ser Gly  
35 40 45

Xaa Pro Gly Cys Ile Trp Gly Ile Cys Phe Val Gly Leu Leu Leu Gly  
50 55 60

Ala Xaa Arg Pro Arg Ser Gly Cys Leu Cys Ser Pro Ser Xaa Cys Leu  
65 70 75 80

Trp Ser Leu Val Val Cys Glu Ser Ile Cys Leu Pro Arg Xaa Gly Pro  
85 90 95

Asn Gln Ala Pro Pro Xaa Pro Leu Phe Leu Ser Leu Asn Leu Pro Phe  
100 105 110

Leu Phe Gln Pro Leu Gln Met Arg Trp Leu Ser Ala Val Gly Trp Arg  
115 120 125

Glu Ala Met  
130

<210> 173

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals stop translation

<400> 173

Met Gln Leu Ser Leu Ser Leu Cys Ala Phe Val Val Cys Thr Asn Ala  
1 5 10 15

Val Cys Thr His Ala Ala Thr Asn Gln Ala Arg Leu Val Gly Phe Leu  
20 25 30

Lys Val Leu Arg Pro Ala His Ser Pro Leu Cys Leu Xaa  
35 40 45

<210> 174

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (63)  
<223> Xaa equals stop translation

<400> 174  
Met Gln Pro Ala Trp Leu Trp Leu Trp Xaa Trp Glu Leu Gly Trp Glu  
1 5 10 15  
Leu Val Phe Gly Ala Ile Leu Leu Xaa Leu Gln Asp Gly Leu Phe Asp  
20 25 30  
Ser Val Leu Tyr Cys Xaa His Leu Tyr Ser Gly Leu Phe Phe Pro Trp  
35 40 45  
Ile Val Asn Ser Leu Met Ser Gly Ser Ser Gln Leu Met Ser Xaa  
50 55 60

<210> 175  
<211> 20  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (20)  
<223> Xaa equals stop translation

<400> 175  
Met Ser Ser Pro Lys Ser Leu Val Leu Leu Leu Ala Val Ile Cys Arg  
1 5 10 15  
Glu Ala Thr Xaa  
20

<210> 176  
<211> 41  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 176

Met Asn Ile Val Pro Gln Phe Ser Val Leu Pro His Phe Ala Tyr Phe  
1 5 10 15

Ser Phe Ile Ile Leu Tyr Trp Ala Val Leu Phe Ser Gln Thr Ile Cys  
20 25 30

Ser Met Ser Val Phe Lys Val Lys Xaa  
35 40

&lt;210&gt; 177

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 177

Met Thr Asp Ile Thr Cys Phe Leu Phe Ser Tyr Leu Ser Thr Leu Leu  
1 5 10 15

Ser Pro Ile Tyr Leu Asp Val Leu Leu Phe Ser Leu Leu Leu Phe Leu  
20 25 30

Phe His Ile Ala Gly Met His Ile Leu Thr Phe Ile Asn His Asp Ile  
35 40 45

Xaa

&lt;210&gt; 178

&lt;211&gt; 107

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (77)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (88)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (105)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (107)  
 <223> Xaa equals stop translation

<400> 178  
 Met Gly Ala Ala Leu Ala Ala Trp Ile Cys Ile Val Arg Tyr His Gln  
     1                    5                    10                    15  
 Leu Arg Asp Trp Gly Val Arg Arg Trp Pro Asn Gln Leu Ile Leu Trp  
                     20                    25                    30  
 Thr Gly Leu Leu Cys Ala Leu Gly Thr Ser Val Val Gly Asn Leu Pro  
             35                    40                    45  
 Gly Glu Thr Gln Ser Ala Pro Arg Val Cys Xaa Arg Pro Ala Xaa Gly  
     50                    55                    60  
 Xaa Thr Thr Pro Ser Met Pro Arg Gly His Arg Leu Xaa Val Ser Gly  
     65                    70                    75                    80  
 Ala Gly Ser Arg Pro Pro Phe Xaa Gly Leu Val Phe Phe Ser Gly His  
                     85                    90                    95  
 Trp Pro Gly Pro Ala Gly Ser Phe Xaa Leu Xaa  
     100                    105

<210> 179  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals stop translation

<400> 179  
 Met Gly Cys Trp Val Leu Phe Ile Leu Leu Tyr Leu Ala Leu His Ile  
     1                    5                    10                    15  
 Cys Val Gln Asn Tyr Ile Tyr Ser Tyr Lys Ile Ile Cys Leu Gln Ser

20 25 30  
Phe His Tyr Ile Val Arg Lys Ile Gln Ile Phe Val Ser Xaa  
35 40 45

<210> 180  
<211> 67  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (67)  
<223> Xaa equals stop translation

<400> 180  
Met Leu Leu Ala Ala Phe Leu Ala Leu Phe Pro Leu His Asp Ser Arg  
1 5 10 15

Gly Leu Lys His Thr Gly Ala Gly His Val Asn Ser Val Ala Leu Leu  
20 25 30

Pro Ile Pro Leu Lys Ala Val Ser Leu Ser Pro Val Ser Ser Leu Gln  
35 40 45

Val Pro Cys Cys Cys Ser Ser Phe Gln Leu Leu Leu Thr Phe Leu Ser  
50 55 60

Val Ser Xaa  
65

<210> 181  
<211> 50  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals stop translation

<400> 181  
Met Ile Cys Lys Phe Leu Ile Ile Ile Cys Ile Thr Leu Leu Leu Phe  
1 5 10 15

Ala Ile Cys Gln Leu Cys Lys Arg Gln Gly Leu Val Gln Lys Ile Ser  
20 25 30

Phe Tyr Gln Lys Glu Thr Leu Ser Ser Thr Val Gly Thr Thr Phe Leu  
35 40 45

Ser Xaa  
50

<210> 182

<211> 73  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (73)  
 <223> Xaa equals stop translation

<400> 182  
 Met Leu Thr Trp Val Trp Tyr Leu Ile Met Thr Ser Val Leu Gln Ala  
     1                    5                    10                    15  
 Ser Val Ser Ser Val Val Arg Gly Ser Ile Leu Val Gly Gly Ser Glu  
                     20                    25                    30  
 Asp Cys Xaa Glu Gly Gly Ser Leu Ile Gln Val Ser Leu Gly Tyr Val  
             35                    40                    45  
 Leu Ala Ala Arg Glu Asp Arg Gln Glu Cys Gly Pro Asp Thr Val Ser  
       50                    55                    60  
 Cys Pro Pro Gly Met Arg Leu Asp Xaa  
   65                    70

<210> 183  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (44)  
 <223> Xaa equals stop translation

<400> 183  
 Met Leu Ser Ala Leu Ser Ala Leu Tyr Leu Ile Ile Thr Ile Phe Leu  
     1                    5                    10                    15  
 Lys Gly Ser Cys Cys Ser Cys His His Cys Phe Thr Asn Gly Lys Leu  
                     20                    25                    30  
 Trp Leu Arg Lys Phe Ile Ser Gly Ser Gln Pro Xaa  
       35                    40

<210> 184  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> SITE  
 <222> (58)  
 <223> Xaa equals stop translation

<400> 184

Met Cys Met Thr Val Phe Ile Val Phe Tyr Tyr Ser Phe Met Arg Leu  
 1 5 10 15

Leu Phe Arg Cys Ser His Asn Arg Arg His Trp Arg Gly Ser Gly Lys  
 20 25 30

Asn Thr Val Tyr His Thr Gly Pro Arg Asp Glu Ala Cys Cys Ala Met  
 35 40 45

Pro Cys Trp Ala Thr Trp Gly Arg Arg Xaa  
 50 55

<210> 185  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (69)  
 <223> Xaa equals stop translation

<400> 185

Met Pro Leu Ala Leu Lys Arg Gly Gln Leu Phe Leu Ile Pro Trp Leu  
 1 5 10 15

Phe Pro Gln Gly Val Cys Pro Leu Glu Gly Glu Gln Leu Gly Ser Gly  
 20 25 30

Lys Glu Gly Leu Leu Gln Phe Ala Ile Ala Ser Cys Pro Arg Val Tyr  
 35 40 45

Pro Glu His Ser Pro Pro Trp Lys Glu Thr Gln Ser Ala Thr Gly Tyr  
 50 55 60

Arg Lys Ser Asp Xaa  
 65

<210> 186  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals stop translation

<400> 186

Met Lys Tyr Leu Leu Phe Leu Val Phe Cys Leu Ser Tyr Val Lys Asp  
 1 5 10 15

Leu Asn Ile Phe Asp Leu Leu Tyr Xaa  
20 25

<210> 187  
<211> 58  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (58)  
<223> Xaa equals stop translation

<400> 187  
Met Thr Leu Pro Trp Glu Trp Val Pro Asp Lys Arg Ile Trp Leu Leu  
1 5 10 15

Ser Leu Thr Leu Val His Ala Leu Leu Pro Leu Cys Leu Leu Pro Trp  
20 25 30

Asp Val Gly Ala Arg Ser Pro Phe Ile Ser Gly Glu Pro Ile Asn Leu  
35 40 45

Gly Phe Pro Asn Leu Gln Asn Cys Lys Xaa  
50 55

<210> 188  
<211> 67  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (67)  
<223> Xaa equals stop translation

<400> 188  
Met Val Gly Leu Leu Leu Ile Ala Leu Leu Thr Trp Gly Tyr Ile Arg  
1 5 10 15

Tyr Ser Gly Gln Tyr Arg Glu Leu Gly Gly Ala Ile Asp Phe Gly Ala  
20 25 30

Ala Tyr Val Leu Glu Gln Ala Ser Ser His Ile Gly Asn Ser Thr Gln  
35 40 45

Ala Thr Val Arg Asp Ala Val Val Gly Arg Pro Ser Met Asp Lys Lys  
50 55 60

Ala Gln Xaa  
65

<210> 189  
<211> 89



<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (18)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (63)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (89)  
<223> Xaa equals stop translation

<400> 189  
Met Ser Thr Tyr Leu Lys Met Phe Ala Ala Ser Leu Leu Ala Met Cys  
1 5 10 15  
Ala Xaa Ala Glu Val Val His Arg Tyr Tyr Arg Pro Asp Leu Met Arg  
20 25 30  
Asn Arg Leu Arg Arg Val Lys Leu Ile Ser Gln Ser His Ile Ala Leu  
35 40 45  
Val Arg Arg Phe Glu Asp Leu Lys Pro Lys Leu Ser Val Cys Xaa Thr  
50 55 60  
Gly Ile Thr Ser Leu Ser Val Gly Glu Leu Glu Val Trp Ala Glu Ser  
65 70 75 80  
Ser Arg Gly Asp Leu Met Thr Ala Xaa  
85

<210> 190  
<211> 221  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (159)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (221)  
<223> Xaa equals stop translation

<400> 190  
Met Lys Leu Leu Leu Trp Ala Cys Ile Val Cys Val Ala Phe Ala Arg  
1 5 10 15  
Lys Arg Arg Phe Pro Phe Ile Gly Glu Asp Asp Asn Asp Asp Gly His

20 25 30  
 Pro Leu His Pro Ser Leu Asn Ile Pro Tyr Gly Ile Arg Asn Leu Pro  
 35 40 45  
 Pro Pro Leu Tyr Tyr Arg Pro Val Asn Thr Val Pro Ser Tyr Pro Gly  
 50 55 60  
 Asn Thr Tyr Thr Asp Thr Gly Leu Pro Ser Tyr Pro Trp Ile Leu Thr  
 65 70 75 80  
 Ser Pro Gly Phe Pro Tyr Val Tyr His Ile Arg Gly Phe Pro Leu Ala  
 85 90 95  
 Thr Gln Leu Asn Val Pro Pro Leu Pro Pro Arg Gly Phe Pro Phe Val  
 100 105 110  
 Pro Pro Ser Arg Phe Phe Ser Ala Ala Ala Ala Pro Ala Ala Pro Pro  
 115 120 125  
 Ile Ala Ala Glu Pro Ala Ala Ala Ala Pro Leu Thr Ala Thr Pro Val  
 130 135 140  
 Ala Ala Glu Pro Ala Ala Arg Gly Pro Val Ala Ala Glu Pro Xaa Gly  
 145 150 155 160  
 Arg Gly His Leu Leu Glu Leu Glu Pro Ala Ala Glu Ala Pro Val Ala  
 165 170 175  
 Ala Glu Pro Ala Ala Glu Ala Pro Val Gly Val Glu Pro Ala Ala Glu  
 180 185 190  
 Glu Pro Ser Pro Ala Glu Pro Ala Thr Ala Lys Pro Ala Ala Pro Glu  
 195 200 205  
 Pro His Pro Ser Pro Ser Leu Glu Gln Ala Asn Gln Xaa  
 210 215 220

&lt;210&gt; 191

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (52)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 191

Met Glu Arg Leu Val Leu Ser Leu Trp Ser Leu Thr Cys Arg Ala Ser  
 1 5 10 15

Pro Ala Asn Thr His Pro Arg Thr Thr Ser Arg Thr Arg Thr Leu Asp  
 20 25 30

Val Lys Thr Lys Cys Pro Val Glu Ala Val Lys Leu Ser Glu Met Leu  
 35 40 45

Pro Pro Val Xaa  
50

<210> 192

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals stop translation

<400> 192

Met Val Gly Thr His Leu Ile Leu Phe Pro Phe Leu Leu Arg Thr Met  
1 5 10 15

Val Ile Phe Leu Cys Leu Lys Ser Ser Cys Gly Ser Phe Leu Pro Ile  
20 25 30

Asn Lys Ile Gln Thr Pro Phe Ile Leu Asn Leu Ile Tyr Lys Thr Phe  
35 40 45

Lys Met Cys Ser Leu Pro Asn Ser Leu Phe Ser Pro Leu Ser Phe Ile  
50 55 60

Phe Phe Ile Phe Phe Leu Thr Xaa  
65 70

<210> 193

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals stop translation

<400> 193

Met Arg Arg Leu Leu Leu Ala Leu Pro Phe Ala Leu Leu Pro Leu Ala  
1 5 10 15

Val Ala His Ala His Glu Asp His Asp His Glu His Gly Ser Leu Gly  
20 25 30

Ala His Glu His Gly Val Gly Arg Leu Asn Ala Val Leu Asp Gly Gln  
35 40 45

Ala Leu Glu Leu Glu Leu Asp Ser Pro Ala Met Asn Leu Val Gly Phe

50                      55                      60

Glu His Val Ala Thr Ser Ala Ala Asp Lys Ala Lys Val Ala Ala Val  
65                      70                      75                      80

Arg Lys Gln Leu Glu Asn Pro Ser Gly Pro Val Gln Pro Ala Gln Ser  
                    85                      90                      95

Arg Ser Cys Val Val Ser Asn Gln Gly Ile Asn Xaa Arg Cys Ser Xaa  
                    100                      105                      110

<210> 194

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals stop translation

<400> 194

Met Phe Ile Thr Arg Gly Cys Tyr Cys Phe Val Phe Phe Xaa Leu Ala  
1                      5                      10                      15

His Asn Cys Lys Ala Ala Arg Thr Thr Arg Asn Gly Phe Pro Thr Val  
                    20                      25                      30

Pro Gly Arg Arg Gln Arg Thr Leu Arg Arg Leu Phe Leu Cys Gly Phe  
                    35                      40                      45

Pro Leu Leu Cys Ser Gln Gly Asp Leu Ser Ala Ala Xaa  
                    50                      55                      60

<210> 195

<211> 126

<212> PRT

<213> Homo sapiens

<400> 195

Met Thr Lys Leu Ala Gln Trp Leu Trp Gly Leu Ala Ile Leu Gly Ser  
1                      5                      10                      15

Thr Trp Val Ala Leu Thr Thr Gly Ala Leu Gly Leu Glu Leu Pro Leu  
                    20                      25                      30

Ser Cys Gln Glu Val Leu Trp Pro Leu Pro Ala Tyr Leu Leu Val Ser  
                    35                      40                      45

Ala Gly Cys Tyr Ala Leu Gly Thr Val Gly Tyr Arg Val Ala Thr Phe  
 50 55 60

His Asp Cys Glu Asp Ala Ala Arg Glu Leu Gln Ser Gln Ile Gln Glu  
 65 70 75 80

Ala Arg Ala Asp Leu Ala Arg Arg Gly Cys Ala Ser Asp Ser Leu Thr  
 85 90 95

Pro Phe Leu Cys Gly Gln Pro Phe Leu Pro Phe Pro Ile Lys Glu Pro  
 100 105 110

Val Tyr Phe Leu Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
 115 120 125

<210> 196

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals stop translation

<400> 196

Met Ala Ala Leu Leu Leu Leu Pro Trp Leu Met Leu Leu Thr Gly Arg  
 1 5 10 15

Val Ser Leu Ala Gln Phe Ala Leu Ala Phe Val Thr Asp Thr Cys Val  
 20 25 30

Ala Gly Ala Leu Leu Cys Gly Ala Xaa Leu Leu Phe His Gly Met Leu  
 35 40 45

Leu Leu Arg Gly Gln Thr Thr Trp Glu Trp Ala Arg Gly Gln His Ser  
 50 55 60

Tyr Asp Leu Gly Pro Cys His Asn Leu Gln Ala Ala Leu Gly Pro Arg  
 65 70 75 80

Trp Ala Leu Val Trp Leu Trp Pro Phe Leu Ala Ser Pro Leu Pro Gly  
 85 90 95

Asp Gly Ile Thr Phe Gln Thr Thr Ala Asp Val Gly Xaa Thr Ala Ser  
 100 105 110

Xaa

<210> 197  
<211> 66  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (66)  
<223> Xaa equals stop translation

<400> 197  
Met Leu Gly Ile Thr Arg Leu Trp Val Leu Leu Lys Pro Cys Phe Pro  
1 5 10 15  
Arg Cys Tyr Ser Ser Thr Gly Gly Glu Val Leu Pro Arg Cys Cys Glu  
20 25 30  
Val Glu Ala Glu Val Gln Val Pro His Ser Ala Pro Met Asp Ser Arg  
35 40 45  
Glu Gly Gly Thr Val Pro Tyr Phe Gly Gly Cys Gly Ser Pro Arg Phe  
50 55 60

Tyr Xaa  
65

<210> 198  
<211> 52  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (52)  
<223> Xaa equals stop translation

<400> 198  
Met Ala Gln His His Leu Leu Ser Ile Leu Leu Ala Ile Leu Ser Cys  
1 5 10 15  
Ser Ser Gln Pro Arg Gln Xaa Arg Gly Ser Gly Ala Leu Pro Cys Glu  
20 25 30  
Val Cys Ser Ala Val Leu Leu Thr Cys Leu Arg Lys Ile Ser Gly Ser  
35 40 45  
Leu Cys Val Xaa

50

<210> 199  
<211> 59  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (59)  
<223> Xaa equals stop translation

<400> 199  
Met Ile Gly Lys Ser Leu Val Met Phe Cys Phe Leu Ser Trp Gly Ala  
1 5 10 15

Gly Val His Gly Cys Ala Leu Tyr Tyr Asn Ala Ser Asn Arg Ile Gly  
20 25 30

Ile Phe Tyr Ile Phe Cys Phe Thr Tyr Leu Arg Leu His Glu Cys Val  
35 40 45

Met Leu Ser Asn Leu Arg Val Asn Glu Leu Xaa  
50 55

<210> 200  
<211> 52  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (52)  
<223> Xaa equals stop translation

<400> 200  
Met Leu Ser Pro Leu Ser Gln Ser Leu Leu Val Ala Leu Asn Val Leu  
1 5 10 15

Phe Leu Leu Pro Asn Phe Leu Ala Leu Ser Lys Asn Leu Thr Tyr Asp  
20 25 30

Cys Tyr Phe Arg Phe Phe Pro Thr Phe Phe Leu Pro Pro Lys Glu Met  
35 40 45

Trp Tyr Leu Xaa  
50

<210> 201  
<211> 81  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE

&lt;222&gt; (81)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 201

Met Cys Pro Ala Ala Ala Leu Ala Trp Pro Thr Ser Ala Ile Ser Leu  
1 5 10 15

Ile Val Ser Leu Ala Pro Ser Trp Ala Ala Ala Arg Asp Asn Trp Ala  
20 25 30

Ala Ser Pro Tyr Thr Thr Gln Ala Arg Pro Ala Leu Arg Ala Ala Leu  
35 40 45

Thr Thr Ile Ser Gly Pro Met Pro Ala Ala Ser Pro Met Val Met Pro  
50 55 60

Thr Gly Arg Glu Gly Phe Thr Val Leu Gly Met Gly Leu Arg Cys Gly  
65 70 75 80

Xaa

&lt;210&gt; 202

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (70)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 202

Met Phe Leu Ile Val Phe Cys Phe Leu Gln Ser Leu Ser Ala Met Pro  
1 5 10 15

Ile Val Leu Ile Phe Tyr Arg Ser Ser Leu Lys Ile Leu Asn Arg Gly  
20 25 30

Ile Gly Ser Gly Gln Ser Glu Trp Leu Glu Phe Trp Leu Ser Lys Lys  
35 40 45

Asn Phe Ile Leu His Lys His Val Val Arg Ser Phe Cys Ala Tyr Ala  
50 55 60

Ala Trp Ile Gly Cys Xaa  
65 70

&lt;210&gt; 203

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)



<223> Xaa equals stop translation

<400> 203

Met Leu Leu Cys Ser Val Arg Asn Ile Leu Trp His Thr Ala Phe Leu  
1 5 10 15

Gly Ser Ala Val Leu Cys Phe Val Leu Val Leu Val Leu His Leu Glu  
20 25 30

Cys Leu Ile Ile Asp Ala Tyr Phe Asn Ser Ile Ser Phe Xaa  
35 40 45

<210> 204

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals stop translation

<400> 204

Met Gly Thr Glu Ala Ser Pro Lys Arg Tyr Phe Phe Val Val Val Val  
1 5 10 15

Val Leu Gly Ile Ile Val Pro Ile Leu Arg Ala Phe Pro Pro Pro Val  
20 25 30

Pro Thr His Pro Asn Lys Met Trp Trp Cys Cys Leu Gln Lys Arg Glu  
35 40 45

Val Leu Cys His Xaa  
50

<210> 205

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals stop translation

<400> 205

Met Phe Cys Trp Ile Leu Val Cys Leu Ala Tyr Leu Lys Val Pro Leu  
1 5 10 15

Leu Phe Phe Phe Phe Phe Phe Leu Ser Ala Leu Phe Cys Arg Thr Cys  
20 25 30

Ser Asn Met Glu Asn Lys Ser Arg Arg Leu Ser Ser Asp Cys Tyr Leu  
35 40 45

Cys Pro Lys Pro Pro Gln Thr Phe Met Leu Met Phe Tyr Xaa

50

55

60

&lt;210&gt; 206

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 206

Met Leu Phe Leu His Thr Arg Leu His Phe Pro Arg Tyr Thr Leu Leu  
1 5 10 15

Ile Cys Lys Val Leu Leu Val Val Ala Ala Ser Val His Arg Pro Trp  
20 25 30

Leu Arg Ser Ile Thr Gly Cys Phe Phe Thr Lys Xaa  
35 40

&lt;210&gt; 207

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 207

Met Ser Ala Ser Leu Cys Leu Phe Thr Gln Val Leu Lys Gly Ile Val  
1 5 10 15

Trp Leu Pro Ile Leu Met Phe His Val Gly Ala Thr Lys Thr Ser Gly  
20 25 30

Phe Ser Val Glu Gln Leu Tyr Ser Xaa  
35 40

&lt;210&gt; 208

&lt;211&gt; 57

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (57)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 208

Met Phe Lys Arg Met Cys Phe Phe Phe Gln Val Phe Leu Pro Leu Ala  
1 5 10 15

Cys Thr Glu Leu Leu Trp Lys Gly Ala Pro Cys Arg His Ile Phe Gln  
20 25 30

Thr Gly Pro Asp Leu Leu Val Thr Gln Arg Cys Val His Ser Leu Leu  
35 40 45

Leu Gly Tyr Leu Ile Ser Ile Phe Xaa  
50 55

<210> 209

<211> 126

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (126)

<223> Xaa equals stop translation

<400> 209

Met Met Thr Gln Thr Cys Ile Ile Leu Leu Ile His Thr Met Gln Val  
1 5 10 15

Cys Thr Thr His Pro Thr Val Leu Ser His Thr Leu Leu Gln Arg Pro  
20 25 30

Lys Pro Thr Asp Leu Phe Pro Lys Ala Thr Pro Thr Thr Ala Pro Met  
35 40 45

Pro Leu Arg Met Arg Pro Pro Gln Cys Leu Pro His Met Phe His Leu  
50 55 60

Gln Ser Arg Arg Phe Asp Gln Glu Ile Gly Leu Gln Gln Lys Ser Met  
65 70 75 80

Thr Gly Ile Leu Gln Thr Glu Lys Trp Thr Gln Glu Asn Phe Gly Leu  
85 90 95

Ser Gln Gly Val Phe Leu Asn Met Asn Leu Ala Ser His Gln Phe Phe  
100 105 110

Ser Met Lys Asp Gln Leu Pro Ser Leu Lys Leu Pro Asp Xaa  
115 120 125

<210> 210

<211> 26

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals stop translation

<400> 210

Met Val Asn Ile Phe Gly Phe Val Ser Cys Ile Val Phe Val Val Ala  
1 5 10 15

Val Gln Leu Cys Tyr Met Lys Gln Pro Xaa  
20 25

<210> 211  
<211> 48  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (48)  
<223> Xaa equals stop translation

<400> 211  
Met Leu Gln Phe Leu Leu Gly Phe Thr Leu Gly Asn Val Val Gly Met  
1 5 10 15

Tyr Leu Ala Gln Asn Tyr Asp Ile Pro Asn Leu Ala Lys Lys Leu Glu  
20 25 30

Glu Ile Lys Lys Asp Leu Asp Ala Lys Lys Lys Pro Pro Ser Ala Xaa  
35 40 45

<210> 212  
<211> 45  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals stop translation

<400> 212  
Met Ala Ser Gly Ser Trp Thr Ser Ala Pro Gly Ile Gly Val Ile Leu  
1 5 10 15

Val Met Thr Val Cys Leu Ser His Cys Tyr Thr His Glu Trp Gly Leu  
20 25 30

Trp Gly Gly Gly Gly Thr Gln Gly Leu Thr Asp Ser Xaa  
35 40 45

<210> 213  
<211> 52  
<212> PRT  
<213> Homo sapiens

<220>

<221> SITE  
<222> (52)  
<223> Xaa equals stop translation

<400> 213  
Met Tyr Ile Leu Cys Ser Gly Leu Leu Gln Gly Gln Leu His Tyr Phe  
1 5 10 15  
Leu Gly Trp Ala Phe Leu Trp Leu Lys Leu Gly Cys Pro Trp Leu Ser  
20 25 30  
Gln Gly Ser Gln Pro Lys Arg His Ser Gly Glu Asn Leu Trp Pro Ile  
35 40 45  
Arg Glu Glu Xaa  
50

<210> 214  
<211> 51  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (51)  
<223> Xaa equals stop translation

<400> 214  
Met Tyr Ser Leu Val Leu Thr Phe Leu Val Ser Phe Cys Ala Leu Ser  
1 5 10 15  
Lys Thr Phe Leu Asp His Trp Phe Gln Met Phe Ile Tyr Tyr Ile Leu  
20 25 30  
Phe Lys Asp Ser Glu Ile Gly Phe Cys His Pro Leu Leu Tyr Val Leu  
35 40 45  
Phe His Xaa  
50

<210> 215  
<211> 210  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (135)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (143)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE  
<222> (179)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (182)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (210)  
<223> Xaa equals stop translation

<400> 215  
Met Arg Ser Thr Ile Leu Leu Phe Cys Leu Leu Gly Ser Thr Arg Ser  
1 5 10 15  
Leu Pro Gln Leu Lys Pro Ala Leu Gly Leu Pro Pro Thr Lys Leu Ala  
20 25 30  
Pro Asp Gln Gly Thr Leu Pro Asn Gln Gln Gln Ser Asn Gln Val Phe  
35 40 45  
Pro Ser Leu Ser Leu Ile Pro Leu Thr Gln Met Leu Thr Leu Gly Pro  
50 55 60  
Asp Leu His Leu Leu Asn Pro Ala Ala Gly Met Thr Pro Gly Thr Gln  
65 70 75 80  
Thr His Pro Leu Thr Leu Gly Gly Leu Asn Val Gln Gln Gln Leu His  
85 90 95  
Pro His Val Leu Pro Ile Phe Val Thr Gln Leu Gly Ala Gln Gly Thr  
100 105 110  
Ile Leu Ser Ser Glu Glu Leu Pro Gln Ile Phe Thr Ser Leu Ile Ile  
115 120 125  
His Ser Leu Phe Pro Gly Xaa Ile Leu Pro Thr Ser Gln Ala Xaa Ala  
130 135 140  
Asn Pro Asp Val Gln Asp Gly Ser Leu Pro Ala Gly Gly Ala Gly Val  
145 150 155 160  
Asn Pro Ala Thr Gln Gly Thr Pro Ala Gly Arg Leu Pro Thr Pro Ser  
165 170 175  
Gly Thr Xaa Asp Asp Xaa Ala Val Thr Thr Pro Ala Gly Ile Gln Arg  
180 185 190  
Ser Thr His Ala Ile Glu Glu Ala Thr Thr Glu Ser Ala Asn Gly Ile  
195 200 205  
Gln Xaa  
210

<210> 216  
 <211> 195  
 <212> PRT  
 <213> Homo sapiens

<400> 216

Met Ala Pro Ala Ala Ser Arg Leu Arg Ala Glu Ala Gly Leu Gly Ala  
 1 5 10 15

Leu Pro Arg Arg Ala Leu Ala Gln Tyr Leu Leu Phe Leu Arg Leu Tyr  
 20 25 30

Pro Val Leu Thr Lys Ala Ala Thr Ser Gly Ile Leu Ser Ala Leu Gly  
 35 40 45

Asn Phe Leu Ala Gln Met Ile Glu Lys Lys Arg Lys Lys Glu Asn Ser  
 50 55 60

Arg Ser Leu Asp Val Gly Gly Pro Leu Arg Tyr Ala Val Tyr Gly Phe  
 65 70 75 80

Phe Phe Thr Gly Pro Leu Ser His Phe Phe Tyr Phe Phe Met Glu His  
 85 90 95

Trp Ile Pro Pro Glu Val Pro Leu Ala Gly Leu Arg Arg Leu Leu Leu  
 100 105 110

Asp Arg Leu Val Phe Ala Pro Ala Phe Leu Met Leu Phe Phe Leu Ile  
 115 120 125

Met Asn Phe Leu Glu Gly Lys Asp Ala Ser Ala Phe Ala Ala Lys Met  
 130 135 140

Arg Gly Gly Phe Trp Pro Ala Leu Arg Met Asn Trp Arg Val Trp Thr  
 145 150 155 160

Pro Leu Gln Phe Ile Asn Ile Asn Tyr Val Pro Leu Lys Phe Arg Val  
 165 170 175

Leu Phe Ala Asn Leu Ala Ala Leu Phe Trp Tyr Ala Tyr Leu Ala Ser  
 180 185 190

Leu Gly Lys  
 195

<210> 217  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals stop translation

<400> 217

Met Gln Ala Arg Trp Phe His Ile Leu Gly Met Met Met Phe Ile Trp

1                      5                      10                      15

Ser Ser Ala His Gln Tyr Lys Cys Pro Cys Tyr Ser Arg Gln Ser Gln

                    20                      25                      30

Glu Lys Xaa

                    35

<210> 218

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals stop translation

<400> 218

Met Phe Pro Ser Cys Leu Pro Leu Leu Phe Asn Ala Lys Val Leu Ala

1                      5                      10                      15

Lys Asp Ile Phe Leu Leu Leu Leu Cys Phe Ser Ile Leu Phe Cys Thr

                    20                      25                      30

Val Gly Trp Leu Ser Ala Pro Thr Leu Gly Thr Gly Pro Trp Leu Gly

                    35                      40                      45

His Phe Met Ala Gln Ser Leu Trp Gly Leu Lys Glu Gly Trp Ala Ala

                    50                      55                      60

Gln Ser Leu His Gly Ser Cys Xaa

65                      70

<210> 219

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals stop translation

<400> 219

Met Ala Val Ser Leu Trp Pro Glu Gly Ser Gly Pro Leu Cys Ala Leu

1                      5                      10                      15

Ser Leu Leu Thr Cys Cys Leu Val Leu Arg Pro Ala Ser Ser Ser Gly

                    20                      25                      30

Phe Leu Trp Ser Leu Glu Glu Thr Pro Ala Leu Gln Gly Leu Cys Glu

                    35                      40                      45

Ile Ala Gln Pro Xaa

                    50



<210> 220  
<211> 69  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (69)  
<223> Xaa equals stop translation

<400> 220  
Met Val His Asn Cys Leu Leu Leu Leu Lys Phe Leu Leu Leu Phe Cys  
1 5 10 15  
Phe Pro Leu Ile Ser Tyr Gln Leu Met Asn Gly Ser Leu Gln Ser Leu  
20 25 30  
Gln Arg Leu Arg Met Ile Gln Asn Val Gln Cys Ile Val Leu Asn Lys  
35 40 45  
Gln Glu Ala Glu Phe Leu Met Gly Ile Ser Phe Gln Ile Tyr Asp Trp  
50 55 60  
Ser Leu Gly Phe Xaa  
65

<210> 221  
<211> 69  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (69)  
<223> Xaa equals stop translation

<400> 221  
Met Ser His Leu Gln Thr Leu His Leu Ile Gly Leu Ser Cys Ser Phe  
1 5 10 15  
Leu Tyr Phe Pro Thr Ser Gln Ala Val Glu Ala Ala Glu Pro Gly Met  
20 25 30  
Met Leu Ser Leu Arg Gln Met Thr Asn Pro Leu Val Ala Arg Asn Gln  
35 40 45  
Thr Ala Pro Arg Ala Gly Val Ser Val Phe Cys Thr Asp Cys Leu Phe  
50 55 60  
Gly Leu Asp Ile Xaa  
65

<210> 222  
<211> 44

<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (44)  
<223> Xaa equals stop translation

<400> 222  
Met Leu Thr Cys Ile Asp Met Asp Trp Lys Val Leu Thr Trp Leu Arg  
1 5 10 15  
Tyr Thr Leu Trp Ile Pro Leu Tyr Pro Leu Gly Met Phe Gly Gly Ser  
20 25 30  
Cys Leu Ser Asp Ser Val His Ser Asn Ile Gln Xaa  
35 40

<210> 223  
<211> 103  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (103)  
<223> Xaa equals stop translation

<400> 223  
Met Trp Ser Ser Ile Arg Leu Leu Ser Pro Val Leu Ser Leu Ile Leu  
1 5 10 15  
Leu Leu Ile Ala Leu Glu Leu Val Asn Ile His Ala Val Cys Gly Lys  
20 25 30  
Asn Ala His Glu Tyr Gln Gln Tyr Leu Lys Phe Val Lys Ser Ile Leu  
35 40 45  
Gln Tyr Thr Glu Asn Leu Val Ala Tyr Thr Ser Tyr Glu Lys Asn Lys  
50 55 60  
Trp Asn Glu Thr Ile Asn Leu Thr His Thr Ala Leu Leu Lys Met Trp  
65 70 75 80  
Thr Phe Ser Glu Lys Lys Gln Met Leu Ile His Leu Ala Lys Lys Ser  
85 90 95  
Thr Ser Lys Val Leu Leu Xaa  
100

<210> 224  
<211> 214  
<212> PRT  
<213> Homo sapiens

<220>

&lt;221&gt; SITE

&lt;222&gt; (214)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 224

Met Lys Gly Phe Ser Trp Ala Ile Val Pro Ala Leu Thr Ser Leu Gly  
 1 5 10 15

Tyr Leu Ile Ile Leu Val Val Ser Ile Phe Pro Phe Trp Val Arg Leu  
 20 25 30

Thr Asn Glu Glu Ser His Glu Val Phe Phe Ser Gly Leu Phe Glu Asn  
 35 40 45

Cys Phe Asn Ala Lys Cys Trp Lys Pro Arg Pro Leu Ser Ile Tyr Ile  
 50 55 60

Ile Leu Gly Arg Val Phe Leu Leu Ser Ala Val Phe Leu Ala Phe Val  
 65 70 75 80

Thr Thr Phe Ile Met Met Pro Phe Ala Ser Glu Phe Phe Pro Arg Thr  
 85 90 95

Trp Lys Gln Asn Phe Val Leu Ala Cys Ile Ser Phe Phe Thr Gly Ala  
 100 105 110

Cys Ala Phe Leu Ala Leu Val Leu His Ala Leu Glu Ile Lys Ala Leu  
 115 120 125

Arg Met Lys Leu Gly Pro Leu Gln Phe Ser Val Leu Trp Pro Tyr Tyr  
 130 135 140

Val Leu Gly Phe Gly Ile Phe Leu Phe Ile Val Ala Gly Thr Ile Cys  
 145 150 155 160

Leu Ile Gln Glu Met Val Cys Pro Cys Trp His Leu Leu Ser Thr Ser  
 165 170 175

Gln Ser Met Glu Glu Asp His Gly Ser Leu Tyr Leu Asp Asn Leu Glu  
 180 185 190

Ser Leu Gly Gly Glu Pro Ser Ser Val Gln Lys Glu Thr Gln Val Thr  
 195 200 205

Ala Glu Thr Val Ile Xaa  
 210

&lt;210&gt; 225

&lt;211&gt; 109

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (109)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 225

Met Thr Val Ser Gly Thr Val Val Leu Val Ala Gly Thr Leu Cys Phe  
1 5 10 15

Ala Trp Trp Ser Glu Gly Asp Ala Thr Ala Gln Pro Gly Gln Leu Ala  
20 25 30

Pro Xaa Thr Glu Tyr Pro Val Pro Glu Gly Pro Ser Pro Leu Leu Xaa  
35 40 45

Ser Val Ser Phe Val Cys Cys Gly Ala Gly Gly Leu Leu Leu Leu Ile  
50 55 60

Gly Leu Leu Trp Ser Val Lys Ala Ser Ile Pro Gly Pro Pro Ser Met  
65 70 75 80

Gly Pro Leu Ser Pro Leu Gln Arg Pro Val Leu Pro His Cys Gly Val  
85 90 95

Leu Arg Glu Gly Glu Leu Gln Asp Pro Gln Ser Gly Xaa  
100 105

&lt;210&gt; 226

&lt;211&gt; 316

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (316)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 226

Met Glu Ser Leu Tyr Asp Leu Trp Glu Phe Tyr Leu Pro Tyr Leu Tyr  
1 5 10 15

Ser Cys Ile Ser Leu Met Gly Cys Leu Leu Leu Leu Cys Thr Pro  
20 25 30

Val Gly Leu Ser Arg Met Phe Thr Val Met Gly Gln Leu Leu Val Lys  
35 40 45

Pro Thr Ile Leu Glu Asp Leu Asp Glu Gln Ile Tyr Ile Ile Thr Leu  
50 55 60

Glu Glu Glu Ala Leu Gln Arg Arg Leu Asn Gly Leu Ser Ser Ser Val  
65 70 75 80

Glu Tyr Asn Ile Met Glu Leu Glu Gln Glu Leu Glu Asn Val Lys Thr  
                             85                            90                            95  
 Leu Lys Thr Lys Leu Asp Pro Trp Ser Ser Phe Ser Val Leu Gln Ser  
                             100                            105                            110  
 Pro Val Trp His Phe Ala Ala Gln Thr Pro Ala Asp Ile Val Ser Pro  
                             115                            120                            125  
 Asp Ser His Phe Met Leu Ser Thr Gln Gly Met Ser Trp Ala Gln Leu  
                             130                            135                            140  
 Val Phe Leu Leu Pro Ala Ser Arg Pro Gly Asn Ser Gln Asp Lys Arg  
 145                            150                            155                            160  
 Arg Lys Lys Ala Ser Ala Trp Glu Arg Asn Leu Val Tyr Pro Ala Val  
                             165                            170                            175  
 Met Val Leu Leu Leu Ile Glu Thr Ser Ile Ser Val Leu Leu Val Ala  
                             180                            185                            190  
 Cys Asn Ile Leu Cys Leu Leu Val Asp Glu Thr Ala Met Pro Lys Gly  
                             195                            200                            205  
 Thr Arg Gly Pro Gly Ile Gly Asn Ala Ser Leu Ser Thr Phe Gly Phe  
                             210                            215                            220  
 Val Gly Ala Ala Leu Glu Ile Ile Leu Ile Phe Tyr Leu Met Val Ser  
 225                            230                            235                            240  
 Ser Val Val Gly Phe Tyr Ser Leu Arg Phe Phe Gly Asn Phe Thr Pro  
                             245                            250                            255  
 Lys Lys Asp Asp Thr Thr Met Thr Lys Ile Ile Gly Asn Cys Val Ser  
                             260                            265                            270  
 Ile Leu Val Leu Ser Ser Ala Leu Pro Val Met Ser Arg Thr Leu Gly  
                             275                            280                            285  
 Leu His Lys Leu His Leu Pro Asn Thr Ser Arg Asp Ser Glu Thr Ala  
                             290                            295                            300  
 Lys Pro Ser Val Asn Gly His Gln Lys Ala Leu Xaa  
 305                            310                            315

&lt;210&gt; 227

&lt;211&gt; 116

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (116)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 227

Met Leu Ala Leu Ser Ser Ser Phe Leu Val Leu Ser Tyr Leu Leu Thr  
 1 5 10 15  
 Arg Trp Cys Gly Ser Val Gly Phe Ile Leu Ala Asn Cys Phe Asn Met  
 20 25 30  
 Gly Ile Arg Ile Thr Gln Ser Leu Cys Phe Ile His Arg Tyr Tyr Arg  
 35 40 45  
 Arg Ala Pro Thr Gly Pro Trp Leu Ala Cys Thr Tyr Arg Gln Ser Cys  
 50 55 60  
 Ser Gly His Leu Pro Ser Val Val Gly Leu Leu Leu Phe Arg Arg Tyr  
 65 70 75 80  
 Ser Ser Ala Val Ser Arg Ala Gly Gln Pro Asp Trp His Thr Leu Leu  
 85 90 95  
 Trp Gly Pro Ser Val Trp Glu Gln Leu Ser Gly Gln His Ser Ser Gln  
 100 105 110  
 Arg Pro Ser Xaa  
 115

<210> 228  
 <211> 107  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (107)  
 <223> Xaa equals stop translation

<400> 228  
 Met Cys Val Gly Trp Trp Trp Trp Leu Val Val Leu Gly Leu Gly Met  
 1 5 10 15  
 Gly Gly Thr Leu Gly Cys Asp Gly Phe Leu Ser Gln Arg Trp Cys Phe  
 20 25 30  
 Thr Ala Gly Lys Tyr Leu Glu Leu Gly Gly Gly Leu Ser Arg His Gln  
 35 40 45  
 Ala Asp Phe Ile Phe Ser Gln Thr Lys Ala Thr Phe Thr Ser Lys Gly  
 50 55 60  
 Lys Thr Gln Asn Thr Lys Ile Glu Thr Ser Met Pro Pro His Leu Phe  
 65 70 75 80  
 Arg Gln Gln Glu Pro Pro Gly Gln Arg Val Phe Leu Thr Leu Arg Val  
 85 90 95  
 Thr Leu Thr Ser His Leu Val Ser Cys Gly Xaa  
 100 105

<210> 229  
<211> 38  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals stop translation

<400> 229  
Met Ser Ser Phe Thr Leu Gly Leu Leu Phe Leu Phe Ile Phe Thr Thr  
1 5 10 15  
Ala Glu Asn Tyr Leu Ile Leu Phe Gln Arg Lys Tyr Cys Leu Val Ile  
20 25 30  
Phe Trp Gly Glu Phe Xaa  
35

<210> 230  
<211> 68  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (68)  
<223> Xaa equals stop translation

<400> 230  
Met Gln Thr Ser Gln Gln Leu Cys Cys Leu Ala Ile Ser Ile Leu Ala  
1 5 10 15  
Thr Leu Leu Pro Ser Gly Ala Ser Glu Glu Arg Ser Gly Leu Arg Pro  
20 25 30  
Gly Met Arg Leu Gln Glu Arg Glu Gln Arg Arg Ala Thr Phe Gly Ala  
35 40 45  
Ser Val His Ser Ser Phe Ile Ser Phe Cys Leu Leu His Gly Val Leu  
50 55 60  
Asn Lys Phe Xaa  
65

<210> 231  
<211> 51  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (51)  
<223> Xaa equals stop translation

&lt;400&gt; 231

Met Glu Leu Ser Leu Ala Val Leu Glu Ala Val Cys Gln Cys Leu Leu  
1 5 10 15

Gly Leu Trp Leu Leu Phe Trp Leu Asp Lys Glu Val Ala Val Phe Val  
20 25 30

Leu Leu Leu Trp Leu Phe Thr Asp Leu Thr Asp Val Thr Gly Asp Glu  
35 40 45

Cys Arg Xaa  
50

&lt;210&gt; 232

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 232

Met Lys Leu Leu Phe Cys Leu Arg Tyr Tyr Met Leu Leu Ser Val Val  
1 5 10 15

Val Lys Ala Thr Ser Thr Ile Pro Ser Asn Ile Glu Ile Thr Ser Leu  
20 25 30

Ser Trp Val Cys His Asn Ser Thr Xaa  
35 40

&lt;210&gt; 233

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 233

Met Arg Leu Val Ser Pro Gly Phe Trp Trp Val Leu Pro Leu Arg Leu  
1 5 10 15

Gly Glu Ala Leu Pro Gly Arg Arg Arg Gln Gln Pro Pro Gly Ala Met  
20 25 30

Lys Thr Leu Arg Leu Arg Glu Val Lys Xaa  
35 40

&lt;210&gt; 234

&lt;211&gt; 48



<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (48)  
<223> Xaa equals stop translation

<400> 234  
Met Trp Gly Pro Phe Cys Pro Phe Leu Phe Leu Phe Ser Arg Leu Ser  
1 5 10 15  
Asn Ser Leu Thr Lys Asp Ser Met Asn Ile Lys Ala His Ile His Met  
20 25 30  
Leu Leu Glu Val Arg Ala Ala His Pro Thr Thr Arg Leu Cys Val Xaa  
35 40 45

<210> 235  
<211> 40  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (40)  
<223> Xaa equals stop translation

<400> 235  
Met Phe Ile Leu Ala Ile Trp Asn Phe Phe Ile Leu Tyr Leu Phe Ser  
1 5 10 15  
Thr Val Ala Gly Leu Val Cys Lys Ser Leu Cys Gln Asn Gln Thr Ile  
20 25 30  
Phe Lys Thr Ala Leu Cys Phe Xaa  
35 40

<210> 236  
<211> 64  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (64)  
<223> Xaa equals stop translation

<400> 236  
Met Leu Arg Gly Trp Ala Leu Ser Thr Phe Leu Val Cys Ile Leu Gln  
1 5 10 15  
Trp Val Arg Ser Leu Thr Ile Arg Leu Ala Ser Ala Leu Ser Val Arg

20                      25                      30  
 Gly Pro Ser Ser Ile Pro Ala Ser Leu Ala Ile Ile Tyr Thr Leu Phe  
                     35                      40                      45  
 Ile Phe Ser Phe Lys Phe Leu Lys Ile Val Lys Ser Ile Tyr Ile Xaa  
                     50                      55                      60

<210> 237

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals stop translation

<400> 237

Met Arg Lys Val Thr Ile Ser Lys Lys His Ala Leu Leu Leu Cys Phe  
                     1                      5                      10                      15

Gln Leu Phe Arg Cys Leu Leu Ser Met Tyr Ile Trp Ile Thr Phe Val  
                     20                      25                      30

Leu Asp Gly Ser Cys Gly Ile His Cys Ser Leu Lys Pro Val Ser Phe  
                     35                      40                      45

Pro Cys Thr Tyr His Ser Val His Ser Ser Thr Ser Xaa  
                     50                      55                      60

<210> 238

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals stop translation

<400> 238

Met Cys Ala Leu Gly Val Phe Leu Leu Val Pro Trp Tyr Glu Tyr Tyr  
                     1                      5                      10                      15

Leu Val Leu Leu Phe Phe Pro Cys Val Ala Phe Ser Val Val Ser Gly  
                     20                      25                      30

Phe Phe Leu Cys Asn Asp Ser Lys Arg Thr Leu His Ser Cys Ala Leu  
                     35                      40                      45

Cys Leu Cys Ala Gly Ile Cys Phe Pro Tyr Met Phe Leu Phe Xaa  
                     50                      55                      60

<210> 239  
<211> 57  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (57)  
<223> Xaa equals stop translation

<400> 239  
Met Met Leu His Xaa Lys Leu Leu Leu Phe Xaa Glu Ala Leu Trp Tyr  
1 5 10 15  
Tyr Gly Gly Gly Ala Phe Leu Cys Cys Ala Gly Ser Val Pro Thr Asp  
20 25 30  
Cys Tyr Phe Gly Gly Leu Asp Gln Arg Arg Leu Val Xaa Asp Lys Cys  
35 40 45  
Thr Glu Lys Ser Thr Gly Leu Leu Xaa  
50 55

<210> 240  
<211> 182  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (182)  
<223> Xaa equals stop translation

<400> 240  
Met Thr Val Ile Leu Ile Ile Leu Ile Val Val Met Ala Arg Tyr Cys  
1 5 10 15  
Arg Ser Lys Asn Lys Asn Gly Tyr Glu Ala Gly Lys Lys Asp His Glu  
20 25 30

Asp Phe Phe Thr Pro Gln Gln His Asp Lys Ser Lys Lys Pro Lys Lys  
 35 40 45  
 Asp Lys Lys Asn Lys Lys Ser Lys Gln Pro Leu Tyr Ser Ser Ile Val  
 50 55 60  
 Thr Val Glu Ala Ser Lys Pro Asn Gly Gln Arg Tyr Asp Ser Val Asn  
 65 70 75 80  
 Glu Lys Leu Ser Asp Ser Pro Ser Met Gly Arg Tyr Arg Ser Val Asn  
 85 90 95  
 Gly Gly Pro Gly Ser Pro Asp Leu Ala Arg His Tyr Lys Ser Ser Ser  
 100 105 110  
 Pro Leu Pro Thr Val Gln Leu His Pro Gln Ser Pro Thr Ala Gly Lys  
 115 120 125  
 Lys His Gln Ala Val Gln Asp Leu Pro Pro Ala Asn Thr Phe Val Gly  
 130 135 140  
 Ala Gly Asp Asn Ile Ser Ile Gly Ser Asp His Cys Ser Glu Tyr Ser  
 145 150 155 160  
 Cys Gln Thr Asn Asn Lys Tyr Ser Lys Gln Met Arg Leu His Pro Tyr  
 165 170 175  
 Ile Thr Val Phe Gly Xaa  
 180

&lt;210&gt; 241

&lt;211&gt; 71

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (71)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 241

Met His Met Tyr Val Trp Val Arg Ala His Leu Val Phe Tyr Leu Phe  
 1 5 10 15  
 Val Cys Leu Ser Glu Ser Ser Ala Gly Gln Arg Leu Pro Leu Asp Cys  
 20 25 30  
 Cys Cys Ser Gly Asp Glu Lys Asp Glu Glu Ser Ala Gly Lys Arg Gly  
 35 40 45  
 Gly Val Gln Glu His Gly Gly His Leu Gly Pro Ser Phe Trp His Thr  
 50 55 60  
 Lys Pro Glu Phe Ser Cys Xaa  
 65 70

<210> 242  
<211> 62  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (62)  
<223> Xaa equals stop translation

<400> 242  
Met Trp Arg Val Met Leu Ala Trp Leu Ala Met Val Asn Ser Pro Met  
1 5 10 15  
Ala Met Glu Ser Gln Val Gly His Ile Ile Ala Val Lys Asp Thr Leu  
20 25 30  
Thr Gln Met Thr Leu Pro Gly Ala Arg Ile Glu Pro Val Arg Lys Glu  
35 40 45  
Ser Lys Ala Gly Ser Ala Gly Lys Arg Glu Gly Phe Cys Xaa  
50 55 60

<210> 243  
<211> 35  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals stop translation

<400> 243  
Met Ile Ala Asp Trp Met Phe Phe Val Tyr Ala Leu Cys Ile Asp Val  
1 5 10 15  
Thr Ala Asn Glu Phe Cys Leu Thr Leu Thr Phe Leu Thr Ser Lys Val  
20 25 30  
Ser Lys Xaa  
35

<210> 244  
<211> 47  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals stop translation

<400> 244  
Met Glu Pro Val Ala Leu Leu Gln Pro Thr Trp Trp Leu Leu Asn Val  
1 5 10 15

Thr Leu Pro Leu Val Ala Trp Ser Gly Pro Leu Ile Cys Arg Pro Leu  
20 25 30

Leu His Gly Glu Gly Arg Gln Gly Ala Ala Cys Leu Gln Gly Xaa  
35 40 45

<210> 245

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals stop translation

<400> 245

Met His Phe Lys Arg Thr Gln Asn His Leu Asn Ile Val Thr Trp Leu  
1 5 10 15

Leu Gln Val Met Ile Ile Val Met Leu Ile Ile Met Arg Ile Ser Cys  
20 25 30

Thr His Gln Pro Val Glu Ser Lys Lys Phe Pro Phe Arg Asn Phe Leu  
35 40 45

Ser Cys Xaa  
50

<210> 246

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals stop translation

<400> 246

Met Thr Tyr His Val Val Cys Ala Phe Leu Ile Val Val Leu Lys Lys  
1 5 10 15

Gln Phe Ile Leu Ala Leu Gln Thr Ile Ser Thr Ser Leu Arg Ser Lys  
20 25 30

Gln Ile Leu Met Val Leu Ser Ser Thr Ile Ile Ala Asp Ser Thr Phe  
35 40 45

Tyr Tyr Xaa  
50

<210> 247

<211> 33

<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals stop translation

<400> 247  
Met Pro Val Pro Leu Trp Leu Val Leu Trp Phe Cys Phe Leu Leu Tyr  
1 5 10 15

Val Ala Ser Arg Arg Thr Phe Gly Leu Ala Asn Tyr Met Pro Leu Pro  
20 25 30

Xaa

<210> 248  
<211> 49  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals stop translation

<400> 248  
Met Leu Ile Cys Arg Leu Val Leu Leu Ala Asp Pro Gly Pro Val Asn  
1 5 10 15

Phe Met Val Arg Leu Phe Val Val Ile Val Met Phe Ala Trp Ser Ile  
20 25 30

Val Gly Lys Tyr Val Leu Ile Ser Thr Ile Thr Glu Gln Thr Lys Thr  
35 40 45

Xaa

<210> 249  
<211> 116  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (116)  
<223> Xaa equals stop translation

<400> 249  
Met Ile Asn Val Tyr Phe Ser Gly Pro Gly Val Leu Thr Pro Leu Asp  
1 5 10 15

Asp Gln Gly Ser Pro Cys Pro Pro Ala Pro Phe Ala Ala Leu His Pro

20 25 30  
 Cys Pro His Pro Ala Gly Ser Gly Val Leu Cys Cys Cys Pro Leu Arg  
 35 40 45  
 Leu Cys Arg Pro Cys Arg Ile Leu Phe Thr Gly Pro Leu Leu Leu Thr  
 50 55 60  
 Leu His His Leu Leu Cys Glu Thr Ser Pro Ser Gly Ile Gly Val Gly  
 55 70 75 80  
 Asn Ile Val Pro Gly Ala Arg Pro Leu Gly Val Asn Pro Val Phe Pro  
 85 90 95  
 Ile Ser Ser Cys Asp Leu Gly Gln Val Ala Glu Pro Leu Leu Val Thr  
 100 105 110  
 Ile Ser Ser Xaa  
 115

<210> 250  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals stop translation

<400> 250  
 Met Thr Asn Val Tyr Ser Leu Asp Gly Ile Leu Val Phe Gly Leu Leu  
 1 5 10 15  
 Phe Val Cys Thr Cys Ala Tyr Phe Lys Lys Val Pro Arg Leu Lys Thr  
 20 25 30  
 Trp Leu Leu Ser Glu Lys Lys Gly Val Trp Gly Val Phe Tyr Lys Ala  
 35 40 45  
 Ala Val Ile Gly Thr Arg Leu His Ala Ala Val Ala Ile Ala Cys Val  
 50 55 60  
 Val Met Ala Phe Tyr Val Leu Phe Ile Lys Xaa  
 65 70 75

<210> 251  
 <211> 63  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (57)  
 <223> Xaa equals any of the naturally occurring L-amino acids



&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 251

Met Pro Thr Leu Arg Val Pro Val Leu Ser Val Trp Leu Leu Arg Trp  
1 5 10 15

Trp Arg Val Leu Gly Ala Gly Arg Val Leu Pro Asp Ser Leu Ser Leu  
20 25 30

Ser Pro Pro Pro Pro Thr Gly Cys Gln Thr Lys Pro Glu Arg Gly Trp  
35 40 45

Gly Ser Gln Pro Pro Ser Val Leu Xaa Pro Gln Ala Pro Val Xaa  
50 55 60

&lt;210&gt; 252

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (73)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 252

Met Val Tyr Tyr Leu Asn Arg Ala Leu Arg Ala Thr Phe Ser Ile Leu  
1 5 10 15

Phe Ser Val Val Cys Leu Leu Phe Leu Gly Ser Ile Val Asn Cys Phe  
20 25 30

Leu Asn Asp Val Phe Lys Pro Leu Thr Leu Asn Phe Ser Thr Ala Leu  
35 40 45

Ser Ala Trp Arg Lys Glu Ser Ser Ala Trp Asn Ser Leu Gly Leu Leu  
50 55 60

Pro Pro Thr Asp Glu Tyr Pro Thr Xaa  
65 70

&lt;210&gt; 253

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 253

Met Val Val Asn Asp Arg Leu Val Ser Thr Cys Ile Leu Cys Thr Leu

1 5 10 15  
His Ile Pro Leu Phe Phe Leu Ile Phe Leu Val Tyr Glu Val His Leu  
20 25 30  
Val Phe Gln Ile Val Ala Asn Leu Gln Lys Ile Phe Gln Tyr Ile Tyr  
35 40 45

Xaa

<210> 254  
<211> 41  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals stop translation

<400> 254  
Met Ile Ile Leu His Ile Val Val Cys Leu Phe Thr Ile Ser Ile Ile  
1 5 10 15

Glu Glu Gln Lys Glu Glu Ile Leu Cys Ser Thr Lys Ser Gln Ala Glu  
20 25 30

Lys Thr Val Thr His Ile Glu Gln Xaa  
35 40

<210> 255  
<211> 54  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals stop translation

<400> 255  
Met Thr Leu Ser Val Leu Phe Ala Phe Pro Ile Trp Leu Lys Tyr Leu  
1 5 10 15

Asn Leu Asn Ile Phe Phe Leu Ala Leu Lys Ile Phe Trp Val Ile Leu  
20 25 30

Ser Phe Cys Thr Ser Cys Thr Ser Trp Tyr Ser Gly Ala Arg Val Ile  
35 40 45

Phe Phe Gln Ile Ile Xaa  
50

<210> 256

<211> 41  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals stop translation

<400> 256  
Met Cys Arg Arg Ile Gln Arg Leu Arg Ala Met Leu His Met Leu Leu  
1 5 10 15

Val Ser Met Leu Pro Thr Val Gly Lys Pro Asn Met Tyr Gln Pro Pro  
20 25 30

Gln Asn Tyr Asp Ile Leu Leu Gln Xaa  
35 40

<210> 257  
<211> 42  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals stop translation

<400> 257  
Met Ala Leu Ala Phe Leu His Leu Asn Ile Ser Xaa Ser Gln Ala Leu  
1 5 10 15

Thr Leu Cys Lys Glu Leu Glu Lys Pro Lys Leu Glu Lys Asn Lys Gly  
20 25 30

Gly Pro Ala Leu Glu Lys Leu Val Val Xaa  
35 40

<210> 258  
<211> 53  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (53)  
<223> Xaa equals stop translation

<400> 258  
Met Ser Gly Thr Thr Trp Thr Ala Ile His Leu Thr Ser Asn Leu Phe

```

      1           5           10           15
Gly Ile Leu Ala Leu Pro Gly Asn Gln Ser Ser Gly Ser Asn Ile Glu
      20           25           30
Gln Leu Cys Thr Ser Ser Arg Glu Ala Thr Asn Arg Leu Pro Cys Val
      35           40           45
Asp Val Gly Ser Xaa
      50

```

```
<210> 259
<211> 48
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (48)
<223> Xaa equals stop translation
```

```

<400> 259
Met  Phe Tyr  Pro  Pro  Cys  Pro  Phe  Phe  Pro  Gln  Leu  Cys  Phe  Cys  Ile
  1          5          10          15

Phe  Phe  Leu  Gly  Lys  Cys  Lys  Leu  Ser  Leu  Ser  Phe  Met  Thr  Cys  Glu
          20          25          30

Ile  Ser  Val  Ser  Leu  Glu  Phe  Val  Arg  Arg  Arg  Gly  Asn  His  Ala  Xaa
          35          40          45

```

```
<210> 260
<211> 53
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (53)
<223> Xaa equals stop translation
```

```

<400> 260
Met Asn Ser Trp Ile Leu Asn Met Arg Val Arg Phe Thr Phe Leu Ser
  1             5             10             15

Gln Leu Leu Thr Leu Ile Pro Arg Thr Ser His Ser Ala Thr Ser Val
      20             25             30

Gly Asn Ser Gln Ile Glu Leu Pro Arg Glu Lys His His Met Thr Tyr
      35             40             45

Trp Glu Asn Gly Xaa
    50

```

<210> 261  
<211> 55  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (55)  
<223> Xaa equals stop translation

<400> 261  
Met Phe Ile Val Ile Cys Lys Ile Leu Leu Phe Leu Ile Leu Val Ala  
1 5 10 15  
Arg Pro Phe Arg Thr His Ser Cys Ile Lys Tyr Phe Ala Leu Phe Lys  
20 25 30  
Glu Thr His Met Asp Glu Val Arg Met Cys Asn Met Met Ala Ser Gln  
35 40 45  
Cys Ser Ser Leu Tyr Leu Xaa  
50 55

<210> 262  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 262  
Met Lys Asn Met Asn Ser Arg Tyr Tyr Leu Arg Ala Ile Phe Cys Leu  
1 5 10 15  
Tyr Thr Leu Ala Cys Ile Leu Phe Leu Gln Ile Ile Leu Lys Ala Arg  
20 25 30  
Cys Gly Gly Ser Arg Leu  
35

<210> 263  
<211> 24  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (24)  
<223> Xaa equals stop translation

<400> 263  
Met Pro Pro Leu Phe Leu Gly Ser Phe Leu Val Leu Trp Leu Gly Gly  
1 5 10 15  
Val Val Leu Cys Thr Gly Gly Xaa  
20

<210> 264  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (11)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals stop translation

<400> 264  
 Met Val Cys Ala Leu Gly Val Tyr Val Cys Xaa Ser Ala Pro Thr Ala  
     1                    5                    10                    15  
 Ala Val Pro Lys Pro Ala Lys Gly Thr Ile Cys Leu Lys Met Leu Ser  
                     20                    25                    30  
 Gly Ala Asn Cys Ala Cys Gln Gly Gln Val Thr Arg Gln His Xaa  
                     35                    40                    45

<210> 265  
 <211> 115  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (115)  
 <223> Xaa equals stop translation

<400> 265  
 Met Ala Gly Pro Arg Ala Ser Thr Gly Pro Arg Pro Xaa Cys Leu Val  
     1                    5                    10                    15  
 Leu Phe Leu Phe Asn Phe Ile Phe Cys Phe Met Ser Val Cys Pro Pro  
                     20                    25                    30  
 Thr Pro Thr Pro Phe Ser Val Lys Trp Gly Ala Leu Gly Glu Ser Leu  
                     35                    40                    45  
 Leu Pro Pro Ser Leu Ser Gln Asp Leu Pro Pro Arg His Gln Pro Ser  
                     50                    55                    60  
 Leu Trp Thr Arg Gln Arg Ala Asp Arg Val Gly Arg Gly Leu Arg Val  
     65                    70                    75                    80

Ala Arg Ala Ser Pro Pro Ala Asn Gly Pro Leu Leu Arg Pro Pro Val  
                             85                            90                            95

Ser Pro Cys Pro Phe Leu Lys Gln Asn Ala Leu Val Cys Lys Pro Leu  
                             100                            105                            110

Asp Ala Xaa  
                             115

<210> 266

<211> 248

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (248)

<223> Xaa equals stop translation

<400> 266

Met His Leu Ala Arg Leu Val Gly Ser Cys Ser Leu Leu Leu Leu Leu  
       1                            5                            10                            15

Gly Ala Leu Ser Gly Trp Ala Ala Ser Asp Asp Pro Ile Glu Lys Val  
                             20                            25                            30

Ile Glu Gly Ile Asn Arg Gly Leu Ser Asn Ala Glu Arg Glu Val Gly  
                             35                            40                            45

Lys Ala Leu Asp Gly Ile Asn Ser Gly Ile Thr His Ala Gly Arg Glu  
                             50                            55                            60

Val Glu Lys Val Phe Asn Gly Leu Ser Asn Met Gly Ser His Thr Gly  
                             65                            70                            75                            80

Lys Glu Leu Asp Lys Gly Val Gln Gly Leu Asn His Gly Met Asp Lys  
                             85                            90                            95

Val Ala His Glu Ile Asn His Gly Ile Gly Gln Ala Gly Lys Glu Ala  
                             100                            105                            110

Glu Lys Leu Gly His Gly Val Asn Asn Ala Ala Gly Gln Ala Gly Lys  
                             115                            120                            125

Glu Ala Asp Lys Ala Val Gln Gly Phe His Thr Gly Val His Gln Ala  
                             130                            135                            140

Gly Lys Glu Ala Glu Lys Leu Gly Gln Gly Val Asn His Ala Ala Asp  
                             145                            150                            155                            160

Gln Ala Gly Lys Glu Xaa Glu Lys Leu Gly Pro Ser Ala His His Ala

165 170 175

Ala Gly Gln Ala Gly Lys Glu Leu Gln Asn Ala His Asn Gly Val Asn  
180 185 190

Gln Ala Ser Lys Glu Ala Asn Gln Leu Leu Asn Gly Asn His Gln Ser  
195 200 205

Gly Ser Ser Ser His Gln Gly Gly Ala Thr Thr Thr Pro Leu Ala Ser  
210 215 220

Gly Ala Ser Val Asn Thr Pro Phe Ile Asn Leu Pro Ala Leu Trp Arg  
225 230 235 240

Ser Val Ala Asn Ile Met Pro Xaa  
245

<210> 267  
<211> 178  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (155)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (178)  
<223> Xaa equals stop translation

<400> 267

Met Leu Phe Leu Phe Leu Tyr Cys Leu Leu Val Val Leu Pro Phe Lys  
1 5 10 15

Leu Thr Pro Lys His Ser Ala Glu Val Leu Leu Ser Ile His Lys Ser  
20 25 30

Lys Lys Tyr Leu Cys Lys Val Lys Ala Ala Cys Lys Ile Gln Ala Trp  
35 40 45

Tyr Arg Cys Trp Arg Ala His Lys Glu Tyr Leu Ala Ile Leu Lys Ala  
50 55 60

Val Lys Ile Ile Gln Gly Cys Phe Tyr Thr Lys Leu Glu Arg Thr Arg  
65 70 75 80

Phe Leu Asn Val Arg Ala Ser Ala Ile Ile Ile Gln Arg Lys Trp Arg  
85 90 95

Ala Ile Leu Pro Ala Lys Ile Ala His Glu His Phe Leu Met Ile Lys  
100 105 110

Arg His Arg Ala Ala Cys Leu Ile Gln Ala His Tyr Arg Gly Tyr Lys  
115 120 125



Gly Arg Gln Val Phe Leu Arg Gln Lys Ser Ala Ala Leu Ile Ile Gln  
130 135 140

Lys Tyr Ile Arg Ala Arg Glu Ala Gly Lys Xaa Glu Arg Ile Lys Tyr  
145 150 155 160

Ile Glu Phe Lys Asn Leu Gln Leu Ser Tyr Lys His Trp Cys Val Val  
165 170 175

Gly Xaa

<210> 268

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (79)

<223> Xaa equals stop translation

<400> 268

Met Arg Pro Leu Leu Gly Leu Leu Leu Val Phe Ala Gly Cys Thr Phe  
1 5 10 15

Ala Leu Tyr Leu Leu Ser Thr Arg Leu Pro Arg Gly Arg Arg Leu Gly  
20 25 30

Ser Thr Glu Glu Ala Gly Gly Arg Ser Leu Trp Phe Pro Ser Asp Leu  
35 40 45

Ala Glu Leu Arg Glu Leu Ser Glu Val Leu Arg Glu Tyr Arg Lys Glu  
50 55 60

His Gln Ala Tyr Val Phe Leu Leu Phe Cys Gly Ala Tyr Leu Xaa  
65 70 75

<210> 269

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (81)

<223> Xaa equals stop translation

<400> 269

Met Lys Leu Ser Gly Met Phe Leu Leu Leu Ser Leu Ala Leu Phe Cys  
1 5 10 15

Phe Leu Thr Gly Val Phe Ser Gln Gly Gly Gln Val Asp Cys Gly Glu  
20 25 30

Phe Gln Asp Thr Lys Val Tyr Cys Thr Arg Glu Ser Asn Pro His Cys

35

40

45

Gly Ser Asp Gly Gln Thr Tyr Gly Asn Lys Cys Ala Phe Cys Lys Ala  
50 55 60

Ile Val Lys Ser Gly Gly Lys Ile Ser Leu Lys His Pro Gly Lys Cys  
65 70 75 80

Xaa

<210> 270  
<211> 69  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (69)  
<223> Xaa equals stop translation

<400> 270  
Met Asp Ala Ala Met Pro Val Cys Pro Cys Leu Ile Cys Val Cys Phe  
1 5 10 15

Val Leu Arg Leu Gln Ser Gly Val Ala Gly Thr Glu Thr Glu Arg Pro  
20 25 30

Pro His Gly Ala Ala Ser Leu His Gln Asp Arg Gly Ala Thr Leu Arg  
35 40 45

Leu Cys Phe Phe Pro Ser Gly Val Gly Phe Leu Leu Phe Leu Ser Ile  
50 55 60

Leu Pro Trp Ser Xaa  
65

<210> 271  
<211> 131  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (131)  
<223> Xaa equals stop translation

<400> 271  
Met Asn Phe Arg Gln Arg Met Gly Trp Ile Gly Val Gly Leu Tyr Leu  
1 5 10 15

Leu Ala Ser Ala Ala Ala Phe Tyr Tyr Val Phe Glu Ile Ser Glu Thr  
20 25 30

Tyr Asn Arg Leu Ala Leu Glu His Ile Gln Gln His Pro Glu Glu Pro  
35 40 45

Leu Glu Gly Thr Thr Trp Thr His Ser Leu Lys Ala Gln Leu Leu Ser  
50 55 60

Leu Pro Phe Trp Val Trp Thr Val Ile Phe Leu Val Pro Tyr Leu Gln  
65 70 75 80

Met Phe Leu Phe Leu Tyr Ser Cys Thr Arg Ala Asp Pro Lys Thr Val  
85 90 95

Gly Tyr Cys Ile Ile Pro Ile Cys Leu Ala Val Ile Cys Asn Arg His  
100 105 110

Gln Ala Phe Val Lys Ala Ser Asn Gln Ile Ser Arg Leu Gln Leu Ile  
115 120 125

Asp Thr Xaa  
130

<210> 272  
<211> 85  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (85)  
<223> Xaa equals stop translation

<400> 272  
Met Trp Val Phe Phe Leu Pro Phe Phe Ser Ile Leu Phe Lys Ile Cys  
1 5 10 15

Trp Cys Ile Ser Leu Ser Gln Thr Lys Glu Lys Gln Ser Ser Asn Leu  
20 25 30

Met Phe Tyr Phe Phe Cys Ile Cys Thr Tyr Glu Arg Arg Arg Lys Lys  
35 40 45

Glu Met Arg Arg Gly Glu Lys Lys Arg Ser Phe Cys Leu Ile Gly Leu  
50 55 60

Xaa Gln His Met Ile Ala Val Gln Ala Trp Phe His Glu Gln His Gln  
65 70 75 80

Ile Gln Ile Ser Xaa  
85

<210> 273  
<211> 79  
<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals stop translation

<400> 273

Met Gln Trp Pro Phe Leu Cys Val Leu Pro Leu Leu Pro Gln Val Trp  
1 5 10 15

Arg Ala Gly Ser Leu Leu Arg Ala Leu Glu Leu Tyr Ser Val Leu Leu  
20 25 30

Ser His Phe Leu Trp Glu Met Trp Thr Met Ser Leu Lys Glu Pro Glu  
35 40 45

Leu Leu Leu Ser Thr Lys Ser Leu Thr Val Trp Arg Xaa Arg Glu Pro  
50 55 60

Leu Ser Glu Ile Gly Gly Cys Arg Leu Asn Asn Glu Gly Thr Xaa  
65 70 75

<210> 274

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals stop translation

<400> 274

Met Phe Cys Phe Asn Trp Leu Leu Cys Phe Leu Phe Pro Arg Phe Pro  
1 5 10 15

Ile Leu Val Cys Arg Lys His Gln Phe Cys Val Tyr Leu Leu Leu Val  
20 25 30

Leu Lys Leu Arg Thr Leu Tyr Ala Glu Leu Ile Asp Leu His Leu Cys  
35 40 45

Ala Ser Ile Leu Gly Xaa  
50

<210> 275

<211> 155

<212> PRT

<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (150)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (155)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 275

Met Ala Arg His Gly Leu Pro Leu Leu Pro Leu Leu Ser Leu Leu Val  
1 5 10 15

Gly Ala Trp Leu Lys Leu Gly Asn Gly Gln Ala Thr Ser Met Val Gln  
20 25 30

Leu Gln Gly Gly Arg Phe Leu Met Gly Thr Asn Ser Pro Asp Ser Arg  
35 40 45

Asp Gly Glu Gly Pro Val Arg Glu Ala Thr Val Lys Pro Phe Ala Ile  
50 55 60

Asp Ile Phe Pro Val Thr Asn Lys Asp Phe Arg Asp Phe Val Arg Glu  
65 70 75 80

Lys Lys Tyr Arg Thr Glu Ala Glu Met Phe Gly Trp Ser Phe Val Phe  
85 90 95

Glu Asp Phe Val Ser Asp Glu Leu Arg Asn Lys Ala Thr Gln Pro Met  
100 105 110

Lys Ser Val Leu Trp Trp Leu Pro Val Glu Lys Ala Phe Trp Arg Gln  
115 120 125

Pro Ala Gly Pro Gly Ser Gly Ile Arg Glu Arg Leu Glu His Pro Val  
130 135 140

Leu His Val Ser Trp Xaa Asp Ala Arg Ala Xaa  
145 150 155

&lt;210&gt; 276

&lt;211&gt; 129

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (68)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (98)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

<221> SITE  
<222> (103)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (104)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (112)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (114)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (124)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (129)  
<223> Xaa equals stop translation

<400> 276  
Met Ala Tyr Arg His Phe Trp Met Leu Val Leu Phe Val Ile Phe Asn  
1 5 10 15  
Ser Leu Gln Gly Leu Tyr Val Phe Met Val Tyr Phe Ile Leu His Asn  
20 25 30  
Gln Met Cys Cys Pro Met Lys Ala Ser Tyr Thr Val Glu Met Asn Gly  
35 40 45  
His Pro Gly Pro Ser Thr Ala Phe Phe Thr Pro Gly Ser Gly Met Pro  
50 55 60  
Pro Ala Gly Xaa Glu Ile Ser Lys Ser Thr Gln Asn Leu Asn Arg Trp  
65 70 75 80  
Tyr Gly Gly Arg Cys His Leu Thr Gly Arg Glu His Pro Ser Lys Gln  
85 90 95  
Gly Xaa Gln Gly Gln Pro Xaa Xaa Lys Ala Lys Ser Thr Lys Trp Xaa  
100 105 110  
His Xaa Pro Val Leu Trp Arg Ile Trp Pro Gly Xaa Thr Asp Ser Arg  
115 120 125  
Xaa

<210> 277  
<211> 84  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (84)  
<223> Xaa equals stop translation

<400> 277  
Met Ala Ser Pro Gly Trp His Leu Ser Cys Arg Pro Thr Gly Leu Val  
1 5 10 15  
Ser Ile Phe Leu Leu Cys Ala Pro Ala Tyr Leu His Ser Phe Val Met  
20 25 30  
Thr Ser Ile Thr Leu Ile Ser Thr Lys Ile Cys Ser Pro Thr Lys Leu  
35 40 45  
Arg His Arg Thr His Phe Leu Tyr Gly Ser Ile Met Glu Leu Tyr Pro  
50 55 60  
Thr Leu Thr Phe Pro Met Thr Thr Asp Val Glu Asn Leu Asn Leu Asp  
65 70 75 80  
Ser Ser Arg Xaa

<210> 278  
<211> 86  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (86)  
<223> Xaa equals stop translation

<400> 278  
Met Gly Cys Arg Gly Asn Lys Leu Phe Val Leu Ser Tyr Cys Thr Cys  
1 5 10 15  
Leu Thr Trp Leu Leu Gly Thr Lys Ser Gln Lys Asn Pro Phe Gln Val  
20 25 30  
Cys Met Ser Gly Gly Trp Ala Val Ser Arg Leu Glu Thr Gly Phe Gln  
35 40 45  
Ala Leu His Asp Gly Arg Ala Ser Ser Pro Leu Ser Ala Ala Cys Val  
50 55 60  
Leu Asp Arg Thr Val Ala Arg Arg Trp Lys Pro Pro Ser Val Pro Leu  
65 70 75 80  
Ala His His Thr Lys Xaa  
85

<210> 279  
<211> 96  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (96)  
<223> Xaa equals stop translation

<400> 279  
Met Pro Trp Leu Thr Ile Leu Arg Phe Leu Gln Ala Ser Gly His Val  
1 5 10 15  
Arg Ala Gln Asp Leu Ala Leu Leu Gly Asp Thr Ser Val Cys Ile Arg  
20 25 30  
Cys Gly Cys Gly Gly Cys Ser Leu Ser Ile Ala Asn Tyr Glu Trp Val  
35 40 45  
Pro Leu Arg Arg Lys Asp Cys Lys Arg Tyr Glu Thr Ser Glu Lys Thr  
50 55 60  
Ser Cys Leu Leu Leu Pro Ser Ala Cys Ser Arg Gln Asn Ala Val Gly  
65 70 75 80  
Phe Ser Arg Leu Pro Val Pro Lys Leu Ser Cys Leu Leu His Gly Xaa  
85 90 95

<210> 280  
<211> 98  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (70)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (98)  
<223> Xaa equals stop translation

<400> 280  
Met Ile Leu Leu Phe Leu Leu Ser Leu Ser Leu Ser Leu Ser Leu  
1 5 10 15  
Ser Leu Ser Phe Ser Pro Leu Asn Cys Leu Phe Ser Phe Trp Gly Ser  
20 25 30  
Pro Pro Thr Arg Cys Ser Trp Cys Arg Leu Gly Ser Gln Gly Glu Ala



35 40 45

Trp Trp Pro Gly Leu Gly Arg Gly Thr Leu Ser Leu Ala Lys Ala Glu  
50 55 60

Ser Glu Ile Val Val Xaa Leu Cys Lys Ser Tyr Phe Gln Tyr Phe Leu  
65 70 75 80

Ala Ala Ser Glu Val Ser Leu Thr Pro Cys Arg Ala Leu Leu Leu Leu  
85 90 95

Ser Xaa

<210> 281  
<211> 55  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (55)  
<223> Xaa equals stop translation

<400> 281

Met Ser Val Trp Pro Arg Ser Thr Leu Leu Phe Cys Leu Leu Ser Leu  
1 5 10 15

Ser Thr Gly Leu Phe Leu Asp Lys Leu Gly Ile Ile Ile Pro Ile Leu  
20 25 30

Leu Cys Gly Trp Lys Leu Asn Val Ile Met Met Cys Val Arg Cys Leu  
35 40 45

His Ser Ala Trp Arg Tyr Xaa  
50 55

<210> 282  
<211> 72  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (72)  
<223> Xaa equals stop translation

<400> 282

Met Arg Ile His Phe Lys Ile Leu Val Leu Val Ile Tyr Phe Ile Leu  
1 5 10 15

Leu Gly Ser Phe Ser Asp Arg Cys Ser Leu Leu Asp Cys Lys Ser Arg  
20 25 30

Ile Gln Arg Ile Phe Ile Cys Asn Ile Leu Asn Leu Ser Leu Val Ser  
35 40 45

Cys His Leu Cys Arg Tyr Ser Phe Asp Cys Leu Thr Arg Gly Lys Cys  
50 55 60

Phe Pro Leu Ser Phe Pro Ala Xaa  
65 70

<210> 283  
<211> 44  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (44)  
<223> Xaa equals stop translation

<400> 283  
Met Tyr Ala Ala Ala Leu Ser Thr Ala Pro Ser Leu Phe Phe Leu His  
1 5 10 15

Leu Cys Leu Leu Lys Thr Leu Ile Leu Phe Ser Leu Ser Ser Ile Pro  
20 25 30

Leu Pro Pro Leu Leu Tyr Ser Tyr Asp Leu His Xaa  
35 40

<210> 284  
<211> 56  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (56)  
<223> Xaa equals stop translation

<400> 284  
Met Leu Pro Ser Asn Trp Ser Gly Thr Trp Ala Leu Ile Gln Leu Ser  
1 5 10 15

Ile Pro Phe Thr Leu Ala Phe His Gln Pro Asn Lys Asn Gln Leu Thr  
20 25 30

Gln Lys Lys Arg Lys Ala Pro Gln Gly Ser Phe Asp Pro Asp Ile Tyr  
35 40 45

Ile Asp Ala Ile Gly Val Pro Xaa  
50 55

<210> 285  
<211> 49  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals stop translation  
  
<400> 285  
Met Ser Thr Leu Arg Arg Met Ala Leu Leu Tyr Ile Glu Thr Pro Leu  
1 5 10 15  
Leu Arg Ala Leu Met Val Gln Gly Pro Arg Leu Val Ser Val Arg Ala  
20 25 30  
Ala Met His Gly Lys Cys Gly Gly Arg Ala Leu Trp Ala Leu Trp Gln  
35 40 45

Xaa

<210> 286  
<211> 42  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals stop translation

<400> 286  
Met Val Cys Val Arg Cys Val Trp Tyr Val Trp His Val Phe Gly Val  
1 5 10 15  
Tyr Gly Asn Ile Leu Trp Ile Arg Thr Cys Gly Leu Phe Lys Asp Leu  
20 25 30  
Ser Phe Cys Ala Leu Lys Ser Glu Met Xaa  
35 40

<210> 287  
<211> 49  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals stop translation

<400> 287  
Met Arg His Val Ala Ile Val Thr Met Ile Val Val Leu Ser Pro Pro  
1 5 10 15  
Val Leu Ala Ser Ser Leu Lys Pro Pro Leu Phe Ile Asp Thr Tyr Phe  
20 25 30  
Met Phe Gly Lys Arg Cys Ser Arg Trp Asp Thr Pro Ala Cys Ser Lys

35

40

45

Xaa

<210> 288  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (110)  
 <223> Xaa equals stop translation

<400> 288  
 Met Trp Ala Glu Leu Lys Leu Leu Ser Trp Gly Arg Ala Ala Ile Ala  
   1                  5                  10                  15  
 Val Trp Val Cys Leu Arg Arg Val Val Arg Gly Gly His Ser Pro Pro  
                   20                  25                  30  
 Ala Gly Gln Gly Gly Gln Gly Val Lys Val Gln Trp Glu Gly Val Gln  
           35                  40                  45  
 Gly Ser Gly Ser Gly Gln Pro Glu Asp Met Arg Trp Glu Lys Leu His  
       50                  55                  60  
 Val Arg Ile Leu Met Gln Gly Met His Gly Ala Pro Gln Asp Asp Ile  
   65                  70                  75                  80  
 Arg Ser Val His Gly Ser Thr Ala Phe Pro Asp Cys Leu His Leu Pro  
                   85                  90                  95  
 Cys Arg Pro Thr Cys Pro Gly Val Ser Phe Gly Ser Gly Xaa  
           100                  105                  110

<210> 289  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (64)  
 <223> Xaa equals stop translation

<400> 289  
 Met Leu Leu Val Ser Cys Phe Met Ser Ile Tyr Phe Leu Ser Pro Leu  
   1                  5                  10                  15  
 Leu Leu Pro Leu His Gly Ser Pro His Pro His Ser Tyr Leu Cys Phe  
           20                  25                  30  
 Ala Val Cys Arg Thr Ser Trp Ser Leu Ser Glu Lys Thr Cys Asn Phe  
       35                  40                  45

Pro Asn Glu Met Leu Gln Leu Pro Ile Phe Leu Lys Ser Ile Tyr Xaa  
50 55 60

<210> 290  
<211> 42  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals stop translation

<400> 290  
Met Gly Leu Leu Leu Leu Leu Leu Gly Cys Trp Thr His Ile Phe  
1 5 10 15

Phe Thr Asn Gly Met Ile Tyr Trp Tyr Leu Glu Gly His Pro Ile Leu  
20 25 30

Asn Glu Ile Leu Phe Ile Leu His Phe Xaa  
35 40

<210> 291  
<211> 43  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals stop translation

<400> 291  
Met Ile Asn Cys Val Cys Val His Ala Cys Val Arg Ala Cys Gly Leu  
1 5 10 15

Leu His Ser Leu Val Leu Leu Leu Ser Leu Ser Leu Ser Ser Ala Leu  
20 25 30

Phe Ile Pro Trp Asp Thr Glu Ile Phe Lys Xaa  
35 40

<210> 292  
<211> 45  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (45)

<223> Xaa equals stop translation

<400> 292

Met Leu Phe Phe Cys Leu Leu Met Lys Met Leu Gly Pro Ser Arg Leu  
1 5 10 15

Pro Phe Leu Ala Leu Thr Leu Cys Arg Phe Ile Leu Tyr Phe Gln Phe  
20 25 30

Cys Tyr Leu Ile Ser Asp Ser Ser Pro Asp His Ser Xaa  
35 40 45

<210> 293

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (57)

<223> Xaa equals stop translation

<400> 293

Met Cys Phe Thr Gln Phe Ser Arg Ile Phe Phe Leu Thr Ser Ser Leu  
1 5 10 15

Thr Leu Ala Ala Cys Ala Asn His Ile Leu Ala Ala Tyr Ser Ser Ser  
20 25 30

Leu Ala Asp Arg Cys Val Gly Glu Lys Ser Leu Ile Val Ile Val Pro  
35 40 45

Glu Arg Ser Phe Gln Thr His Phe Xaa  
50 55

<210> 294

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals stop translation

<400> 294

Met Met Tyr Val Gln Ser Ala Ile Met Ser Leu Gln His Leu Leu Val  
1 5 10 15

Leu His Arg Val Ile Ile Ile Ser Met His Phe Ala Phe Gly Asn Gly  
20 25 30

Cys Thr Phe Lys Ile Leu Val Gln Cys Ala Ile Arg Lys Tyr Thr Ser  
35 40 45

Lys Met Ile Ser Arg Ile Ile Gln Met Tyr Leu Thr Thr Met Asp Leu

50

55

60

Phe His Pro Met Lys Leu Gln Arg Lys Leu Xaa  
65 70 75

<210> 295  
<211> 51  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (51)  
<223> Xaa equals stop translation

<400> 295  
Met Ile Ile Pro Lys Phe Tyr Leu Phe Lys Leu Leu Leu Leu Gln  
1 5 10 15

Lys Ile Thr His Phe Ile Cys Gly Lys Thr Leu Asn Asn Leu Asn Phe  
20 25 30

Arg Cys Glu Ser Tyr Phe Leu Phe Leu Tyr Leu Tyr Cys Ala Tyr Ile  
35 40 45

Leu Tyr Xaa  
50

<210> 296  
<211> 45  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals stop translation

<400> 296  
Met Thr Gln Glu Ile Leu Val Val Phe Ser Ile Gln Val Leu Ser Ser  
1 5 10 15

Leu Arg Leu Leu Gly Leu Trp Phe Phe Met Glu Asn Arg Leu Cys Ser  
20 25 30

Gly Ile Val Glu Gln Arg Arg Leu Leu His Leu Asn Xaa  
35 40 45

<210> 297  
<211> 48  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 297

Met Pro Thr Leu Gly Asp Ala Leu Ile Leu Tyr Leu His Leu Val Leu  
1 5 10 15

Gly Val Ala Gly Val Leu Gln Pro Pro Gly Pro Arg Pro Ser Gln Ala  
20 25 30

Leu Gly Pro Thr Gly Asp Arg Ala Pro Gly Lys Trp Asn Arg Ser Xaa  
35 40 45

&lt;210&gt; 298

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 298

Met Ala Trp Cys Leu Leu Ser Val Phe Phe Leu Arg Ala Leu Cys Ala  
1 5 10 15

His Ser Ser Thr Ala Tyr Lys Cys Val Leu Cys Ser Pro Arg Ser Pro  
20 25 30

Trp Leu Val Glu Ala Asn Phe Trp Leu Asp Phe Tyr Gly Lys Ser Tyr  
35 40 45

Phe Met Ser Pro Lys His Xaa  
50 55

&lt;210&gt; 299

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 299

Met Gln Met Thr Val Val Trp Tyr Val Ile Thr Ala Ile Ile Trp Trp  
1 5 10 15

Arg Met Ser Met Cys Glu Ala Leu Ser Gln Asn Cys Phe Xaa  
20 25 30



<210> 300  
<211> 73  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (73)  
<223> Xaa equals stop translation

<400> 300  
Met Pro Leu Gly Val Val Pro Arg Ala Val Trp Ser Thr Leu Ala Trp  
1 5 10 15  
Val Cys Ile Ile Leu Gln Thr Leu Lys Thr Ser Leu Phe Cys Gln Thr  
20 25 30  
Thr Phe Cys Gly Glu Pro Glu Asp Ser Gly Phe Phe Glu Gly Ile Leu  
35 40 45  
Asp Val Cys Val Leu Val Lys Glu Ala Val Ile Arg Leu Asn His Asn  
50 55 60  
Pro Gln Asp Leu Leu Asp Ser Asp Xaa  
65 70

<210> 301  
<211> 37  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals stop translation

<400> 301  
Met Leu Arg Leu Glu Val Leu Leu Leu Phe Phe Ser Lys Val Thr Asp  
1 5 10 15  
Gln Ile Ile Thr Gln Ile Ile Gln Glu Asn Arg Ser Glu Ile Lys Asn  
20 25 30  
Asn Ile Ile Phe Xaa  
35

<210> 302  
<211> 49  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals stop translation

&lt;400&gt; 302

Met Arg Pro Val Leu Arg Arg Thr Phe Leu Leu Thr Leu Phe Ser Val  
1 5 10 15

Ile Ala Leu Thr Lys Ile Lys His Asp Phe Phe Ile Met Cys Ser His  
20 25 30

Met Gln Cys Ile Pro Arg Val Phe Leu Lys His Glu Phe Asn Asn Ile  
35 40 45

Xaa

&lt;210&gt; 303

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 303

Met Phe Tyr Thr Thr Leu Cys Lys Met Phe Gln Tyr Leu His Ile Leu  
1 5 10 15

Ser Leu Ser Phe Cys Phe Ala Leu Ile Trp Trp Ser Glu Ser Phe Leu  
20 25 30

Trp Leu Ser Asn Leu Val Arg Leu Arg His  
35 40

&lt;210&gt; 304

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (54)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 304

Met Ile Leu Leu Ile Ser Gln Cys Pro Leu Ser Ile Phe Ala Ala Pro  
1 5 10 15

Phe Ala Leu Pro Pro Lys Gly His Cys Gly Ser Phe Ser Asp Phe His  
20 25 30

Ser Gln Val Thr Leu His Lys Asn Ser Lys Leu Ile Phe Arg Ser His  
35 40 45

Lys Ser Ile Leu Leu Xaa  
50

&lt;210&gt; 305

&lt;211&gt; 76

&lt;212&gt; PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals stop translation

<400> 305

Met Leu Ala Ala Glu Leu Ile Cys Cys Pro Ser Leu His Ile Phe Phe  
1 5 10 15

Phe Ala Ala Phe Ser Leu Trp Gln Cys Thr Val Leu Thr Met Pro Phe  
20 25 30

Lys Asn Val Pro Tyr Cys Ile Ser Ile Leu Arg Arg Asp Arg Thr Lys  
35 40 45

Lys Tyr Ile Ala Gln Ile Ile Phe Tyr Phe Ile Asp Asn Asp Lys Glu  
50 55 60

Tyr Phe Leu Asn Pro Ile Lys Ile Asp Phe Asn Xaa  
65 70 75

<210> 306

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals stop translation

<400> 306

Met Phe Phe Arg Met Gln Val Cys Glu His His Gly Phe Trp Val Ile  
1 5 10 15

Leu Leu Leu Leu Ser Leu Lys Met Glu Ile Pro Leu Ala Ala Tyr Pro  
20 25 30

Thr Ala Glu Tyr Ser Ser Ile Gly Ser Gly Phe Thr Pro Leu His Pro  
35 40 45

Ser Arg Thr Phe Thr Gln Ala Ser Pro Leu Pro Ser Ile Phe Xaa  
50 55 60

<210> 307

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals stop translation

&lt;400&gt; 307

Met Asn Val Phe Val Gly Pro Leu Ser Val Ala Ile Val Ile Phe Cys  
 1 5 10 15

Trp Ile Thr Met Tyr Trp Val Ser Ile Val Met Gly Gln Gly Arg Gly  
 20 25 30

Gln Tyr Thr Trp Arg Thr Ile Leu Ser Thr Ser Thr Pro Ser Val Cys  
 35 40 45

Ser Xaa  
 50

&lt;210&gt; 308

&lt;211&gt; 103

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (103)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 308

Met Glu His Trp Ile Pro Pro Glu Val Pro Leu Ala Gly Leu Arg Arg  
 1 5 10 15

Leu Leu Leu Asp Arg Leu Val Phe Ala Pro Ala Phe Leu Met Leu Phe  
 20 25 30

Phe Leu Ile Met Asn Phe Leu Glu Gly Lys Asp Ala Ser Ala Phe Ala  
 35 40 45

Ala Lys Met Arg Gly Gly Phe Trp Pro Ala Leu Arg Met Asn Trp Arg  
 50 55 60

Val Trp Thr Pro Leu Gln Phe Ile Asn Ile Asn Tyr Val Pro Leu Lys  
 65 70 75 80

Phe Arg Val Leu Phe Ala Asn Leu Ala Ala Leu Phe Trp Tyr Ala Tyr  
 85 90 95

Leu Ala Ser Leu Gly Lys Xaa  
 100

&lt;210&gt; 309

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 309

Met Arg Phe Ile Ser Gln Gln Ser Cys Glu Cys Val Arg Pro Cys Met  
 1 5 10 15

Asp Val Tyr Val Cys Val Tyr Ile Ser Ile His Val Tyr Met Asp Ala  
 20 25 30

His Val Tyr Leu Cys Arg Ile Cys Lys Thr Asn Met Arg  
35 40 45

<210> 310

<211> 53

<212> PRT

<213> Homo sapiens

<400> 310

Arg Ile Leu Arg Trp Val Asn Cys Met Ala Cys Asp Leu Tyr Leu Asn  
1 5 10 15

Lys Ala Val Ser Val Cys Ala His Val Trp Met Cys Met Cys Val Tyr  
20 25 30

Ile Ser Leu Tyr Met Tyr Thr Trp Met Pro Met Cys Ile Tyr Val Glu  
35 40 45

Tyr Val Lys Gln Thr  
50

<210> 311

<211> 59

<212> PRT

<213> Homo sapiens

<400> 311

Asn Pro Glu Asn Gln Leu Glu Ile Ser Phe Pro Pro Arg Arg Gln Lys  
1 5 10 15

Met Lys Leu Thr Leu Asp Leu Gln Val Ser Gln Ser Ser Leu Val His  
20 25 30

Ser Leu Leu Ser Ser Asp Phe Phe Ser Val Ser Lys Glu Gly Cys Leu  
35 40 45

Trp Lys Pro Ile Leu Leu Pro Ser His Phe Leu  
50 55

<210> 312

<211> 47

<212> PRT

<213> Homo sapiens

<400> 312

Leu Gln Thr Gln Ile Ser Asn Tyr Leu Met Phe Val Leu His Ile Leu  
1 5 10 15

His Arg Tyr Thr Trp Ala Ser Met Tyr Thr Cys Ile Glu Ile Tyr Thr  
20 25 30

His Thr Tyr Thr Ser Ile His Gly Arg Thr His Ser Gln Leu Cys  
35 40 45

<210> 313  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 313  
 Ile His Met Gly Ile His Val Tyr Met Tyr Arg Asp Ile Tyr Thr His  
     1                    5                    10                    15  
 Ile His Ile His Thr Trp Ala His Thr Leu Thr Ala Leu Leu Arg Tyr  
             20                    25                    30  
 Lys Ser His Ala Ile Gln Leu Thr His Leu Asn Ile Arg  
             35                    40                    45

<210> 314  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 314  
 Met Lys Trp Ile Phe Thr Val Leu Ile Leu Thr Ser Cys Phe Phe Thr  
     1                    5                    10                    15  
 Ala Gly Ile Cys Glu Asp Gly Ile Cys Ser Arg Ile Gln Leu Arg Asp  
             20                    25                    30  
 Lys Ile Val Gln Ser Ala Phe Arg Gln  
             35                    40

<210> 315  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<400> 315  
 Lys Pro Cys Cys Pro Ser Val Ser Asn Arg Ser Ser Val Gln Met His  
     1                    5                    10                    15  
 Gln Leu Pro Ile Gln Phe Leu Gly Gln Phe Glu Ala His Cys Ile Gly  
             20                    25                    30  
 Phe Cys Arg Ser Phe Leu Glu Thr Phe Tyr Thr His Asp Pro Arg Ala  
             35                    40                    45  
 Met His Ser Phe Leu Ser Ser Ile Ser Ser Pro Ser Leu Pro Phe Gly  
             50                    55                    60  
 Phe Ser Arg Met Thr Ser Gln Ile Asn His Leu His Pro Ser Pro Leu  
     65                    70                    75                    80  
 Cys

<210> 316  
<211> 21  
<212> PRT  
<213> Homo sapiens

<400> 316  
Ser Val Phe Lys Ile Asn Leu Lys Ser Phe Lys Gln His Glu Pro Trp  
1 5 10 15  
Trp Pro Asn Arg Ser  
20

<210> 317  
<211> 135  
<212> PRT  
<213> Homo sapiens

<400> 317  
Gly Thr Arg Ser Phe Ser Val Pro Ser Tyr Leu Arg Leu Thr Gly Ser  
1 5 10 15  
Leu Met Cys Tyr Leu Leu Leu Leu Leu Ile Gln Thr Ala Glu Leu Leu  
20 25 30  
Ile His Pro Gln Gly Leu Gln Ala Val Ser Asn Gly Glu Ser Ala Leu  
35 40 45  
Lys Gly Thr Arg Pro Thr Phe Ser Ser Pro Phe Ile Leu Val Thr Glu  
50 55 60  
Gly Arg Lys Glu Trp Glu Gly Val Phe Leu Ser Ser Gly Trp Lys Gly  
65 70 75 80  
Asn Thr Leu Ser Asn Tyr Tyr Ile Ser Leu Val Phe Tyr Tyr Ser Arg  
85 90 95  
Ile Leu Gln Pro Tyr Phe Tyr Cys Leu Trp Gly Lys Leu Glu Met Val  
100 105 110  
Thr Leu Ile Arg Ser Val Trp Arg Gly Ile Asn Gly Gly Asp Lys Ile  
115 120 125  
Ser Val Gly Phe Gly Lys Cys  
130 135

<210> 318  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 318  
Trp Met Glu Arg Lys His Thr Val Lys Leu Leu Tyr Leu Leu Gly Phe  
1 5 10 15  
Leu Leu Gln Asn Ser Pro Ala Ile Phe Leu Leu Ser Met Gly Glu Val  
20 25 30

Gly Asp Gly Asp Leu Asp  
35

<210> 319  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 319  
Ser Asn Gly Glu Ser Ala Leu Lys Gly Thr Arg Pro Thr Phe Ser Ser  
1 5 10 15

Pro Phe Ile Leu Val Thr Glu  
20

<210> 320  
<211> 24  
<212> PRT  
<213> Homo sapiens

<400> 320  
Leu Ser Asn Tyr Tyr Ile Ser Leu Val Phe Tyr Tyr Ser Arg Ile Leu  
1 5 10 15

Gln Pro Tyr Phe Tyr Cys Leu Trp  
20

<210> 321  
<211> 131  
<212> PRT  
<213> Homo sapiens

<400> 321  
Glu Lys Asp Phe Met Gln Gly Ser Asp Ala Gly His Gly Gly Thr His  
1 5 10 15

Ile Tyr Arg Ala Leu Val Gln Trp Pro Leu Ala Trp Val Phe Tyr Leu  
20 25 30

Ser His Ala Lys Thr His Trp Gly Glu Glu Leu Arg Phe Ser Phe Arg  
35 40 45

Arg Lys Asn Leu Arg Leu Arg Glu Ala Met Arg His Glu Thr Cys Gln  
50 55 60

Val Thr Gln Leu Val Ala Gly Lys Ala Asp Ser Asn Leu Cys Leu Arg  
65 70 75 80

Asp Ser Glu Thr Trp Phe Trp Pro Pro Leu Trp Ala Ala Cys Ser Ser  
85 90 95

Leu Gln Ala Thr Ala Cys Arg Leu Ser Ser Pro Ser Lys Gly Leu Gly  
100 105 110



Ala Ser Arg Glu Cys Pro Trp Leu Ala Ser Gly Arg Ala Ala Leu Val  
115 120 125

Ser Phe Leu  
130

<210> 322  
<211> 69  
<212> PRT  
<213> Homo sapiens

<400> 322  
Ser Leu Arg Val Lys Gly Arg Lys Pro Arg Leu Leu Tyr His Ser Pro  
1 5 10 15

Ala Arg Gly Thr Leu Trp Met Leu Pro Gly Leu Cys Asp Cys Leu Ile  
20 25 30

Cys Arg Gln Trp Leu Val Glu Arg Ser Arg Leu Pro Arg Val Gly Ala  
35 40 45

Arg Thr Arg Phe Gln Ser Pro Ser Asp Thr Gly Trp Ser Gln Leu Cys  
50 55 60

Gln Leu Pro Ala Val  
65

<210> 323  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 323  
Glu Arg Ser Arg Leu Pro Arg Val Gly Ala Arg Thr Arg Phe Gln Ser  
1 5 10 15

Pro Ser Asp Thr Gly Trp Ser Gln Leu Cys  
20 25

<210> 324  
<211> 33  
<212> PRT  
<213> Homo sapiens

<400> 324  
Lys His Ala Phe Leu Met Ala His Gln Phe Cys Val Leu Ser Leu Ala  
1 5 10 15

Met Gln Trp Ser Ser Cys Phe Gln Leu Val Ala Leu Pro Tyr Leu Ser  
20 25 30

Leu

<210> 325  
<211> 51  
<212> PRT  
<213> Homo sapiens

<400> 325  
Met Arg Pro Leu Cys Val Leu Leu Pro Trp Pro Cys Trp Gln Trp Gly  
1 5 10 15  
Gly Leu Gly Ser Ala Ser Pro Ile Arg Pro Gln Ala Pro Pro Gly Gln  
20 25 30  
Ala Ala His Ala Val Pro Leu Pro Arg Ala Gln His Leu Ala Gln Arg  
35 40 45  
Ser Arg Gln  
50

<210> 326  
<211> 52  
<212> PRT  
<213> Homo sapiens

<400> 326  
Ala Arg Gly Leu Arg Ser Pro His Gly Ala Ala Gly Val Val Arg Gly  
1 5 10 15  
Asp Gly Gly Gly Lys Lys Gly Glu Asp Pro Tyr Ser Pro Ile Leu Phe  
20 25 30  
Gln Ser Glu Arg Ile Pro Arg Leu Ile Tyr Leu Pro Val Ile Ser Ser  
35 40 45  
Glu Glu Asn Ser  
50

<210> 327  
<211> 57  
<212> PRT  
<213> Homo sapiens

<400> 327  
Lys Ser Leu Ser Cys Ser Phe Leu Phe Leu Ala Phe Trp Leu Arg Arg  
1 5 10 15  
Met Gly Gln Thr Met Cys Val Cys Val Cys Val Cys Val Cys Val Cys  
20 25 30  
Val Arg Thr Trp Val Tyr Leu Tyr Glu Pro Val Lys Phe Arg Ser Pro  
35 40 45  
Leu Ile Tyr Val Asn Leu Pro Thr Ser  
50 55

<210> 328

<211> 80  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 328  
Lys Leu Gly Phe Thr Met Leu Ala Arg Leu Val Ser Asn Ser Xaa Thr  
1 5 10 15  
Ser Gly Asp Leu Pro Ser Ser Ala Ser Gln Asn Ala Gly Ile Lys Gly  
20 25 30  
Met Ser Tyr Arg Ala Trp Pro Tyr Ser Tyr Phe Leu Ile Arg Lys Asn  
35 40 45  
Lys Gln Thr Asn Lys Gln Thr Lys Thr Asn Pro Gln Leu Gly Glu Asn  
50 55 60  
Lys His Cys Arg Asn Leu Lys Val Ser Trp Ser Lys Asn Tyr Phe Leu  
65 70 75 80

<210> 329  
<211> 27  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 329  
Glu Arg Gly Gln Gly Gly Ser Ser Arg Asn Val Ala Gly Ser Asp Leu  
1 5 10 15  
Val Phe Pro Ala Val Phe Val Ser Xaa Leu Cys  
20 25

<210> 330  
<211> 166  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (90)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE  
 <222> (92)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (96)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (113)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (126)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (141)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (150)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 330

Gly Ser Pro Gln Gly Pro Ser Val Ala Leu Gly Ser Arg Gln Cys Trp  
 1 5 10 15

Ser Arg Pro Leu Arg Arg Gly Gly Arg Gly Ala Ala Val Glu Met Trp  
 20 25 30

Arg Gly Pro Thr Trp Cys Phe Arg Pro Ser Leu Cys Leu Cys Cys Val  
 35 40 45

Cys Gly Val Ser Phe Gly Leu Tyr Val Pro His Gly Phe Ser Leu Ser  
 50 55 60

Met Cys Val Ser Ala Pro Gly Ser Ala Trp Leu Ser Leu Val Tyr Ser  
 65 70 75 80

Ile Cys Leu Ala Arg Gly Ser Met Ser Xaa Arg Xaa Ser Ser Arg Xaa  
 85 90 95

Ser Leu Val Ala Ser Gly Ala Ser Val Leu Leu Val Cys Phe Trp Val  
 100 105 110

Xaa Ala Asp Pro Gly Val Gly Val Ser Val Pro Arg Ala Xaa Val Ser  
 115 120 125

Gly Leu Trp Trp Cys Val Ser Pro Ser Ala Cys Leu Xaa Leu Ala Pro  
 130 135 140

Thr Lys Pro Pro Pro Xaa Leu Ser Phe Ser Leu Ser Ile Phe Pro Phe

145

150

155

160

Ser Ser Asn Pro Ser Lys  
165

&lt;210&gt; 331

&lt;211&gt; 118

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (67)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (84)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (89)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (90)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 331

Thr Ile Ala Ser Leu Gln Pro Thr Ala Leu Asn His Leu Ile Trp Arg  
1 5 10 15

Gly Trp Lys Arg Lys Gly Arg Leu Arg Glu Arg Lys Arg Gly Xaa Gly  
20 25 30

Gly Ala Trp Leu Gly Pro Xaa Arg Gly Arg Gln Met Asp Ser His Thr  
35 40 45

Thr Arg Asp Gln Arg Gln Xaa Leu Gly Glu Gln Arg His Pro Leu Leu  
50 55 60

Gly Leu Xaa Ala Pro Arg Ser Lys Pro Thr Lys Gln Met Pro Gln Met  
65 70 75 80

Gln Pro Gly Xaa Pro Glu Lys Lys Xaa Xaa Leu Thr Trp Asn His Gly  
85 90 95

Leu Asp Arg Trp Asn Thr Gln Gly Thr Ala Arg Gln Ser Leu Gly Gln  
100 105 110

Lys His Thr Trp Arg Asp  
115

<210> 332

<211> 21

<212> PRT

<213> Homo sapiens

<400> 332

Ala Arg Gly Pro Gly Thr Glu Gly Cys Glu Pro Trp Leu Gln Leu Gln  
1 5 10 15

Asp Arg Arg Glu Arg  
20

<210> 333

<211> 59

<212> PRT

<213> Homo sapiens

<400> 333

Met Ser Ser Gly Thr Asn Ser Phe Phe Thr Leu Met Ala Leu Asn Ser  
1 5 10 15

Pro Thr Gly Asp Ser Gly Ser Arg Ile Thr Val Ser Pro Pro Arg Val  
20 25 30

His Pro Val Lys Ser Gly Arg Gly Arg Ala Ser Asp Leu Leu Leu Thr  
35 40 45

Arg Phe Leu Ala Pro Arg Ser Ala Leu Trp Ser  
50 55

<210> 334

<211> 26

<212> PRT

<213> Homo sapiens

<400> 334

His Glu Tyr His Leu Leu Ser Ser Arg His Ile Leu Gly Ser Val Leu  
1 5 10 15

Arg Leu Asp Val Cys Ser Ala Leu Trp Ser  
20 25

<210> 335  
<211> 82  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (44)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (59)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (67)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 335  
Phe Ile Leu Phe Ile Leu Glu Tyr Asp Met Leu Trp Lys Ser Leu Tyr  
1 5 10 15  
Thr Asn Ser Ser Ala Tyr Gly Tyr Val Ile Ala Ser Tyr Phe Cys Leu  
20 25 30  
Leu Gly Ile Lys Leu Leu Val Lys Gln Lys Lys Xaa Lys Lys Lys Thr  
35 40 45  
Arg Gly Gly Ala Arg Xaa Pro Ile Arg Pro Xaa Val Glu Ser Tyr Tyr  
50 55 60  
Lys Ser Xaa Ala Val Val Leu Gln Arg Arg Gly Leu Gly Lys Asn Leu  
65 70 75 80  
Gly Gly

<210> 336  
<211> 102  
<212> PRT  
<213> Homo sapiens

<400> 336  
Arg Val Ser Ser His Leu Phe Arg Leu Phe Gly Gly Leu Ile Leu Asp  
1 5 10 15  
Ile Lys Arg Lys Ala Pro Phe Phe Leu Ser Asp Phe Lys Asp Ala Leu  
20 25 30

Ser Leu Gln Cys Leu Ala Ser Ile Leu Phe Leu Tyr Cys Ala Cys Met  
35 40 45

Ser Pro Val Ile Thr Phe Gly Gly Leu Leu Gly Glu Ala Thr Glu Gly  
50 55 60

Arg Ile Val Ser Thr Lys Ile Gly Ser Gly Gln Ala Phe Ser Ser Ser  
65 70 75 80

Glu Ala Ser Val Cys Met His Leu Ser His Tyr Ser Tyr Phe Tyr Leu  
85 90 95

Lys Ser Leu Pro Thr Ala  
100

<210> 337

<211> 24

<212> PRT

<213> Homo sapiens

<400> 337

Phe Arg Leu Phe Gly Gly Leu Ile Leu Asp Ile Lys Arg Lys Ala Pro  
1 5 10 15

Phe Phe Leu Ser Asp Phe Lys Asp  
20

<210> 338

<211> 23

<212> PRT

<213> Homo sapiens

<400> 338

Phe Leu Tyr Cys Ala Cys Met Ser Pro Val Ile Thr Phe Gly Gly Leu  
1 5 10 15

Leu Gly Glu Ala Thr Glu Gly  
20

<210> 339

<211> 22

<212> PRT

<213> Homo sapiens

<400> 339

Ser Ser Ser Glu Ala Ser Val Cys Met His Leu Ser His Tyr Ser Tyr  
1 5 10 15

Phe Tyr Leu Lys Ser Leu  
20

<210> 340

<211> 106

<212> PRT



<213> Homo sapiens

<400> 340

Pro Cys Leu Gln Val Ile Gly Ile Asp Phe Cys Arg Leu Leu Leu Met  
1 5 10 15

Cys Leu Val Leu Lys Arg Asn Leu Thr Val Pro Phe Ser Ser Tyr Ser  
20 25 30

Pro Leu Lys Thr Ile Thr Cys Ile Thr Ser Glu Gln Ile Ala Val Val  
35 40 45

Ser Asn Phe Phe Arg Gln Lys Leu Gly Val Arg Ala Lys Phe Phe Gln  
50 55 60

Gly Ala Cys Leu His Thr Ser Lys Val Val Ile Cys Leu Asn Leu Pro  
65 70 75 80

Ile Ile Ser Ile Gln Arg Ala Asp Ile Arg Met Trp Trp Leu Val Val  
85 90 95

Asn Thr Pro Tyr Ala Arg Gly Val Asn Asn  
100 105

<210> 341

<211> 21

<212> PRT

<213> Homo sapiens

<400> 341

Val Val Ser Val Cys Val Leu Glu Thr Gly Gln Leu Gly Pro Ala Ala  
1 5 10 15

Leu Cys Arg Ser Val  
20

<210> 342

<211> 97

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (85)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (90)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 342

Asn	Ile	Ser	Val	His	Gly	Phe	Pro	Val	Pro	Cys	Leu	Arg	Gln	Arg	Leu
1				5					10					15	

Gln	Gly	Pro	Cys	His	Pro	Lys	Cys	Cys	Pro	His	Xaa	Ile	Ser	Ser	Gly
			20					25					30		

Lys	Pro	Arg	Ser	Ser	Phe	Ser	Pro	Ser	Ser	Tyr	His	Cys	Lys	Phe	Ser
		35					40					45			

Arg	Asn	Ala	Thr	Leu	Leu	Val	Val	Pro	Asn	Ile	Phe	Ser	Tyr	Met	Gln
	50					55					60				

Ser	Ser	Phe	Leu	Ile	Pro	Gln	Thr	Ser	Lys	Tyr	Tyr	Ile	Leu	Xaa	Pro
65					70					75					80

Tyr	Ala	Xaa	Thr	Xaa	Arg	Pro	Ile	Lys	Xaa	Ile	Phe	Lys	Gln	Ala	Lys
				85					90					95	

Gln

&lt;210&gt; 343

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 343

Ile	Tyr	Asn	Asp	Met	Met	Met	Glu	Lys	Lys	Lys	Thr	Glu	Val	Tyr	Gln
1				5					10					15	

Lys	Arg	Xaa	Ser	Gly	Asp	Asn	Thr	Trp	Gly	Gly	Lys	Gly	Leu	Val	Ala
			20					25					30		

Phe	Val	Ser	Ser	Met	Glu	Gln	Gly	Ile	His	Val	Gln	Arg	Cys	Phe	Ile
		35					40					45			

Ala	Asn	Leu	Lys	Phe	Ser	Ser	Pro	Gly	Val
	50					55			

&lt;210&gt; 344

<211> 93  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 344  
 Tyr Asp Asp Gly Glu Lys Glu Asp Arg Gly Leu Pro Glu Glu Met Xaa  
           1                  5                  10                  15  
 Trp Gly Gln His Leu Gly Trp Gln Gly Pro Cys Ser Leu Cys Leu Lys  
                   20                  25                  30  
 His Gly Thr Gly Asn Pro Cys Thr Glu Met Phe Tyr Cys Gln Phe Lys  
           35                  40                  45  
 Ile Phe Ile Ser Trp Cys Leu Ile Pro Leu Val Phe Ala Arg Leu Gly  
           50                  55                  60  
 Asp Phe Arg Asp Arg Pro Gly Trp Ile Phe Ser Trp Arg Tyr His Leu  
           65                  70                  75                  80  
 Lys His Thr Val Trp Gly Gly Tyr Asn Ile Ile Met Leu  
                   85                  90

<210> 345  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 345  
 Thr Pro Gly Asp Glu Asn Phe Lys Leu Ala Ile Lys His Leu Cys Thr  
           1                  5                  10                  15  
 Trp Ile Pro Cys Ser  
                   20

<210> 346  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 346  
 Ile Arg His Glu Ile Phe Leu Thr Ile Glu Ser Phe Cys Pro Ser Ala  
           1                  5                  10                  15  
 Pro Arg Gly Glu Asp Asp Asp Asn Leu Leu Arg Thr Ser Arg Val Pro  
           20                  25                  30  
 Asp Ile

<210> 347  
<211> 160  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (126)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (130)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 347  
Ile Arg Gly Ser Ile Pro Gly His Lys Lys Met His Leu Ser Phe Asn  
1 5 10 15  
Val Ala Ala Gln Trp Ser Leu Leu Lys Pro Leu Val Leu Arg Glu Glu  
20 25 30  
Gly Ala Leu Phe Leu Thr His Asp Gln Leu Glu Ser Lys Asn Ser Trp  
35 40 45  
Thr Leu Ser Ile Gly Pro Arg Val Pro Tyr Thr Tyr Val Val Val Thr  
50 55 60  
Trp Ser Ser Ala Leu Trp Asp Leu Pro Asn Gln Pro Leu Ala Gly Arg  
65 70 75 80  
Lys Glu Ser Gly Gly Ser Tyr Gly Pro Ile Ser Val Thr Gln Ser Pro  
85 90 95  
His Gln Ala Ala Leu Lys Trp Phe Ala Lys Lys Lys Gly Lys Gln Ser  
100 105 110  
His Ser Thr Val Gln Leu Ala Asn Ile Leu His Val Phe Xaa Ala Pro  
115 120 125  
Asp Xaa Tyr His Phe Val Asn Thr Ser Leu Gln Leu Phe Leu Glu Tyr  
130 135 140  
Thr Val Met Cys Met Leu Cys Glu Asn Lys Gln Lys Thr Leu Gly Arg  
145 150 155 160

<210> 348  
<211> 135  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 348

Glu Pro Glu Val Thr Gln Val Xaa Ser Xaa Glu Leu Thr Phe Gln Pro  
1 5 10 15

Arg Lys Ala Gly Ala Lys Val Thr Ala Gly Lys Ser His His Gln Val  
20 25 30

Ile His Trp Glu Phe Glu Ile Met Leu Ser Ser Tyr Ser Thr Asp Val  
35 40 45

Pro Leu Trp Phe Leu Lys Phe Phe Ser Ser Asn Leu Pro Gln Thr Tyr  
50 55 60

Phe Pro His Ser Gly Val Lys Lys Trp Gly Ser Cys Phe Ser Leu Pro  
65 70 75 80

Trp Arg Asp Ser Pro Pro Leu Thr Phe Ile Ser Leu Leu Ser Ser His  
85 90 95

Leu Thr Thr Phe His Leu Tyr His Leu His His Gly Ile Ile Cys Leu  
100 105 110

Gly Phe Ser Val Tyr Phe His Arg Ala Tyr Thr Ser Leu Cys Ile Leu  
115 120 125

Glu Thr Ala Val Gly Ser Tyr  
130 135

<210> 349

<211> 25

<212> PRT

<213> Homo sapiens

<400> 349

Trp Ser Leu Leu Lys Pro Leu Val Leu Arg Glu Glu Gly Ala Leu Phe  
1 5 10 15

Leu Thr His Asp Gln Leu Glu Ser Lys  
20 25

<210> 350

<211> 22

<212> PRT

<213> Homo sapiens

<400> 350

Trp Phe Ala Lys Lys Lys Gly Lys Gln Ser His Ser Thr Val Gln Leu  
1 5 10 15

Ala Asn Ile Leu His Val  
20

<210> 351  
<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 351  
Ala Gly Lys Ser His His Gln Val Ile His Trp Glu Phe Glu Ile Met  
1 5 10 15

Leu Ser Ser Tyr Ser Thr Asp Val Pro  
20 25

<210> 352  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 352  
His Gly Ile Ile Cys Leu Gly Phe Ser Val Tyr Phe His Arg Ala Tyr  
1 5 10 15

Thr Ser Leu Cys Ile Leu Glu Thr Ala Val  
20 25

<210> 353  
<211> 19  
<212> PRT  
<213> Homo sapiens

<400> 353  
Lys Arg Leu Thr Ile Asn Ala Arg Val His Leu Trp Thr Leu Lys Ser  
1 5 10 15

Val Pro Leu

<210> 354  
<211> 72  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 354

Glu Tyr Val Phe Asn Met Xaa Xaa Tyr Ser Lys Ser Arg Ala Ile Ser  
1 5 10 15

Pro Leu Ser Gly Pro Tyr Thr Pro Arg Gly Thr Thr Pro Leu Pro Ile  
20 25 30

Ile Pro Glu Pro Gly Ala Arg Gln Arg Asp His Pro Ala Ser Leu Lys  
35 40 45

Tyr Ala Lys Ile Ile Gln Thr Lys Leu Phe Ala Leu Pro Tyr Pro Lys  
50 55 60

Glu Thr Ser Met Lys Ala Val Ala  
65 70

&lt;210&gt; 355

&lt;211&gt; 65

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 355

Glu Thr Val Pro Pro Arg Ser Ser Gln Phe Leu Lys Ile Thr Xaa Gly  
1 5 10 15

Pro Ala Arg Ser Met Ser Leu Ile Xaa Xaa Ala Ile Gln Asn Pro Glu  
20 25 30

Pro Tyr Leu Leu Tyr Leu Ala Leu Ile Pro Gln Glu Ala Leu Leu Leu  
35 40 45

Tyr Leu Ser Ser Gln Ser Gln Val Pro Gly Asn Glu Thr Thr Pro Pro  
50 55 60

Val  
65

&lt;210&gt; 356

&lt;211&gt; 101

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 356

Asn Glu Val Ser Phe Ser Leu Ser Leu Gly Phe Ser Pro Arg Glu Phe  
1 5 10 15

Ala Arg Trp Lys Val Asn Asn Leu Ala Leu Glu Arg Lys Asp Phe Phe  
20 25 30

Ser Leu Pro Leu Pro Leu Ala Pro Glu Phe Ile Arg Asn Ile Arg Leu  
35 40 45

Leu Gly Arg Arg Pro Asn Leu Gln Gln Val Thr Glu Asn Leu Ile Lys  
50 55 60

Lys Tyr Gly Thr His Phe Leu Leu Ser Ala Thr Leu Gly Gly Lys Gln  
65 70 75 80

His His Asn Pro Lys Leu Ile Gly Cys Gln Thr Ile Gly Asn Asn Val  
85 90 95

Lys Thr Arg Val Ala  
100

&lt;210&gt; 357

&lt;211&gt; 75

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 357

Val Pro Tyr Phe Leu Ile Arg Phe Ser Val Thr Cys Cys Arg Leu Gly  
1 5 10 15

Leu Leu Pro Arg Arg Arg Met Phe Arg Ile Asn Ser Gly Ala Arg Gly  
20 25 30

Asn Gly Lys Leu Lys Lys Ser Phe Leu Ser Arg Ala Lys Leu Phe Thr  
35 40 45

Phe Gln Arg Ala Asn Ser Leu Gly Glu Lys Pro Arg Asp Lys Glu Lys  
50 55 60

Leu Thr Ser Phe Gln Ser Lys Arg His Lys Ile  
65 70 75

&lt;210&gt; 358

&lt;211&gt; 63

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 358

Glu Met Ser Ala Val Leu Phe Asn Gln Ile Phe Cys Asn Leu Leu Gln  
1 5 10 15

Ile Gly Ser Pro Ser Lys Glu Ala Asn Val Pro Asp Lys Leu Trp Gly  
20 25 30



Lys Arg Gln Trp Gln Thr Glu Glu Val Leu Pro Phe Gln Ser Gln Val  
35 40 45

Val His Leu Pro Thr Gly Lys Leu Pro Gly Gly Lys Ala Lys Gly  
50 55 60

<210> 359  
<211> 99  
<212> PRT  
<213> Homo sapiens

<400> 359  
His Tyr His Gly Ser Gly Phe Leu Ile Lys Glu Phe Gly Ser Phe Leu  
1 5 10 15

Ser Leu Leu Cys Met Leu Ser Cys Pro Tyr Val Phe Cys His Gly Met  
20 25 30

Leu Glu Gln Glu Val Pro Ser Ser Val Val Ser Pro Ser Thr Leu Asp  
35 40 45

Phe Pro Thr Ser Arg Thr Val Asn Lys Phe Leu Phe Lys Leu Pro Ser  
50 55 60

Leu Trp Tyr Ser Val Ile Ala Thr Gln Asn Gly Leu Lys Gln Lys Ile  
65 70 75 80

Arg Glu Thr Phe Leu Phe Val Gln Phe Ser Gln Met Pro Arg Trp His  
85 90 95

Lys Leu Glu

<210> 360  
<211> 48  
<212> PRT  
<213> Homo sapiens

<400> 360  
Phe Cys Lys His Asn Gly Ser Lys Asn Val Phe Ser Thr Phe Arg Thr  
1 5 10 15

Pro Ala Val Leu Phe Thr Gly Ile Val Ala Leu Tyr Ile Ala Ser Gly  
20 25 30

Leu Thr Gly Phe Ile Gly Leu Glu Val Val Ala Gln Leu Phe Asn Cys  
35 40 45

<210> 361  
<211> 139  
<212> PRT  
<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (115)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 361

Met	Pro	Lys	Pro	Gly	Ala	Ala	Thr	Gln	Arg	Thr	Leu	Leu	Cys	Leu	Pro
1				5				10					15		

Arg	Leu	His	Pro	Ala	Ser	Gly	Pro	Pro	Leu	Pro	Xaa	Ala	Gly	Pro	Leu
			20					25					30		

Arg	Gly	Leu	Arg	Gln	Leu	Pro	Ala	Leu	Pro	Val	Pro	Ala	Ala	Ser	Cys
		35					40						45		

Arg	Arg	Arg	Pro	Ala	Pro	Arg	Leu	Cys	Ala	Ala	Gly	Pro	Cys	Thr	Val
	50					55					60				

Gly	Pro	Ala	Ala	Ser	Pro	His	Ala	Pro	Pro	His	Gly	Cys	Pro	Pro	Pro
65					70					75					80

Ala	Ser	Leu	Ala	His	Val	Ala	His	Arg	Gln	Ser	Val	Ser	Gly	Thr	Val
				85					90					95	

Cys	Leu	Gly	Leu	Arg	Asp	Gly	His	Val	Arg	Gly	Gly	Cys	Ala	Ala	Val
			100					105					110		

Arg	Gly	Xaa	Ala	Ala	Leu	Pro	Trp	Asp	Ala	Ala	Ala	Ala	Gly	Pro	Asp
		115					120						125		

His	Met	Gly	Val	Gly	Ser	Gly	Pro	Ala	Leu	Leu
	130					135				

&lt;210&gt; 362

&lt;211&gt; 35

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 362

Met	Trp	Gly	Gln	Pro	Arg	Pro	Val	Asp	Ser	Val	Trp	Ser	Ser	Ser	Ile
1				5					10					15	

Pro	Lys	Lys	Ser	Val	Glu	Ser	Asn	Asp	Asn	Lys	Ser	His	Leu	His	Lys
				20				25					30		

Arg	Glu	His
		35

&lt;210&gt; 363

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 363

Met Thr Thr Lys Ala Ile Phe Thr Lys Gly Asn Ile Asp Ser Leu Ser  
1 5 10 15

Phe Lys Ser Asn Met Trp Ser Val Tyr Ile  
20 25

&lt;210&gt; 364

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 364

Asp Ser Xaa Leu Asp Arg Arg Pro Ser Gly Pro Asp Val Lys Phe Leu  
1 5 10 15

Ser Asn Lys His His Phe Ser Met Val Cys  
20 25

&lt;210&gt; 365

&lt;211&gt; 84

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 365

Cys Leu Ala Glu Ala Val Ser Val Ile Gln Ser Ile Pro Ile Phe Asn  
1 5 10 15

Glu Thr Gly Arg Phe Ser Phe Thr Leu Pro Tyr Pro Val Lys Ile Lys  
20 25 30

Val Arg Phe Ser Phe Phe Leu Gln Ile Tyr Leu Ile Met Ile Phe Leu  
35 40 45

Gly Leu Tyr Ile Asn Phe Arg His Leu Tyr Lys Gln Arg Arg Arg Arg  
50 55 60

Tyr Gly Gln Lys Lys Lys Arg Ser Thr Lys Lys Lys Asp Leu Asp Gly  
65 70 75 80

Phe Leu Pro Val

&lt;210&gt; 366

&lt;211&gt; 62

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 366

Leu Cys Ser Thr Pro Val Pro Thr Leu Phe Cys Pro Arg Ile Val Leu  
1 5 10 15

Glu Val Leu Val Val Leu Arg Ser Ile Ser Glu Gln Cys Arg Arg Val  
20 25 30

Ser Ser Gln Val Thr Val Ala Ser Glu Leu Arg His Arg Gln Trp Val  
35 40 45

Glu Arg Thr Leu Arg Ser Arg Gln Arg Gln Asn Tyr Leu Arg  
50 55 60

&lt;210&gt; 367

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 367

Ala Arg Gly Glu Thr Ala Tyr Asp Gly Ala Ala Val Glu Phe Gln Glu  
1 5 10 15

Pro Leu Ser Ser Cys Leu Phe Ser Ser Leu Asn Pro His His Trp Pro  
20 25 30

Thr Leu Gly Val Gly Arg Pro Val Met Leu Thr Leu Glu Asp Lys Asp  
35 40 45

&lt;210&gt; 368

&lt;211&gt; 200

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 368

Glu Leu Leu Gln Cys Gln Met Leu Glu Ala Ser Thr Leu Ile His Leu  
1 5 10 15

His His Pro Arg Pro Gly Phe Pro Ala Leu Cys Ser Phe Leu Gly Phe  
20 25 30

Arg His His Leu His His Asp Ala Leu Cys Ile Arg Val Leu Pro Glu  
35 40 45

Asp Leu Glu Ala Lys Leu Cys Val Ser Leu His Gln Leu Leu His Arg  
50 55 60

Gly Leu Cys Leu Pro Gly Phe Gly Ala Ala Cys Pro Gly Asp Gln Gly  
65 70 75 80

Ser Glu Asp Glu Ala Arg Pro Pro Ala Val Leu Arg Ala Val Ala Leu  
85 90 95

Leu Arg Ala Gly Leu Arg His Leu Ser Val His Ser Gly Trp Tyr His  
100 105 110

Leu Pro His Ser Arg Asn Gly Leu Pro Leu Leu Ala Leu Val Val His  
115 120 125

Phe Pro Glu Tyr Gly Gly Gly Pro Arg Glu Pro Val Pro Gly Gln Ser  
130 135 140

Gly Glu Phe Gly Arg Arg Thr Glu Leu Ser Thr Lys Gly Asp Thr Gly  
145 150 155 160

Asp Ser Arg Asn Ser His Leu Ala Gln Asp Met Ala Ser Leu Pro Phe  
165 170 175

Phe Lys Pro Cys Glu Cys Thr His Val Ala Val Cys Ser Pro Pro His  
180 185 190

Pro Leu Cys Gln Tyr Leu Cys Leu  
195 200

<210> 369

<211> 28

<212> PRT

<213> Homo sapiens

<400> 369

Leu Gln Cys Gln Met Leu Glu Ala Ser Thr Leu Ile His Leu His His  
1 5 10 15

Pro Arg Pro Gly Phe Pro Ala Leu Cys Ser Phe Leu  
20 25

<210> 370

<211> 31

<212> PRT

<213> Homo sapiens

<400> 370

His Gln Leu Leu His Arg Gly Leu Cys Leu Pro Gly Phe Gly Ala Ala  
1 5 10 15

Cys Pro Gly Asp Gln Gly Ser Glu Asp Glu Ala Arg Pro Pro Ala  
20 25 30

<210> 371

<211> 27

<212> PRT

<213> Homo sapiens

<400> 371

Leu Ala Leu Val Val His Phe Pro Glu Tyr Gly Gly Gly Pro Arg Glu  
1 5 10 15

Pro Val Pro Gly Gln Ser Gly Glu Phe Gly Arg

20

25

<210> 372  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 372  
Gln Ser Trp Thr Ala Pro Ala Ala Arg Leu Pro Met Ala Leu Pro Gln  
1 5 10 15

Met Cys Asp Gly Ser His Leu Ala Ser Thr Leu Arg Tyr Cys  
20 25 30

<210> 373  
<211> 190  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 373  
Gln Ser Ala Ala Gln Trp Phe Trp Trp Pro Gly Arg Ser Ala Ser Leu  
1 5 10 15

Gly Gly Ala Lys Gly Met Gln Pro Pro Ser Leu Ala Ser Trp Pro Xaa  
20 25 30

Pro Arg Ser Ile Arg Cys Leu Arg Ala Pro Ala Pro Cys Ser Xaa Pro  
35 40 45

Ser Ala Ser Ser Ala Ala Val Gln Val Ala Cys Cys Cys Ser Leu Ala  
50 55 60

Cys Cys Gly Pro Ser Arg Pro Ala Ser Gln Gly His Leu Arg Trp Asp  
65 70 75 80

Pro Tyr His Leu Ser Arg Asp Leu Tyr Tyr Leu Thr Val Glu Ser Ser  
85 90 95

Glu Lys Glu Ser Cys Arg Thr Pro Lys Val Val Asp Ile Pro Thr Tyr  
100 105 110

Glu Glu Ala Val Ser Phe Pro Val Ala Glu Gly Pro Pro Thr Pro Pro  
115 120 125

Ala Tyr Pro Thr Glu Glu Ala Leu Glu Pro Ser Gly Ser Arg Asp Ala  
130 135 140

Leu Leu Ser Thr Gln Pro Ala Trp Pro Pro Pro Ser Tyr Glu Ser Ile  
145 150 155 160

Ser Leu Ala Leu Asp Ala Val Ser Ala Glu Thr Thr Pro Ser Ala Thr  
165 170 175

Arg Ser Cys Ser Gly Leu Val Gln Thr Ala Arg Gly Gly Ser  
180 185 190

<210> 374

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 374

Gly Ser Thr Gly Leu Trp Arg Gly Asp Arg Gly Pro Ile Glu Gly Gly  
1 5 10 15

Pro Gly Met Leu Ala Leu Thr Asp His Ser Arg Pro Met Ser Ser Ser  
20 25 30

Arg Pro Pro Ala Pro Gln Gln Thr Lys Leu Thr Asp Leu Ser Arg Gly  
35 40 45

Leu Gly Pro Ser Gly Thr Gly Tyr Ser Val Xaa Gly Ala Ser Trp Pro  
50 55 60

Gly Trp Ala Val Ala Ser Pro Ser Leu His Gln Ala Lys Gln Ser Val  
65 70 75 80

Pro Ala Thr Arg Thr Thr Val Pro Leu Thr Val Met Gln  
85 90

<210> 375

<211> 27

<212> PRT

<213> Homo sapiens

<400> 375

Gln Trp Phe Trp Trp Pro Gly Arg Ser Ala Ser Leu Gly Gly Ala Lys  
1 5 10 15

Gly Met Gln Pro Pro Ser Leu Ala Ser Trp Pro  
20 25

<210> 376

<211> 29

<212> PRT

<213> Homo sapiens

&lt;400&gt; 376

Ser Ser Ala Ala Val Gln Val Ala Cys Cys Cys Ser Leu Ala Cys Cys  
1 5 10 15

Gly Pro Ser Arg Pro Ala Ser Gln Gly His Leu Arg Trp  
20 25

&lt;210&gt; 377

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 377

Val Ser Phe Pro Val Ala Glu Gly Pro Pro Thr Pro Pro Ala Tyr Pro  
1 5 10 15

Thr Glu Glu Ala Leu Glu Pro Ser Gly Ser Arg Asp Ala Leu Leu Ser  
20 25 30

&lt;210&gt; 378

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 378

Arg Val Ser Phe Pro Val Ala Glu Gly Pro Pro Thr Pro Pro Ala Tyr  
1 5 10 15

Pro Thr Glu Glu Ala Leu Glu Pro Ser Gly  
20 25

&lt;210&gt; 379

&lt;211&gt; 95

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 379

Ser Asn Glu Ile Leu Leu Ser Phe Pro Gln Asn Tyr Tyr Ile Gln Trp  
1 5 10 15

Leu Asn Gly Ser Leu Ile His Gly Leu Trp Asn Leu Ala Ser Leu Phe  
20 25 30

Ser Asn Leu Cys Leu Phe Val Leu Met Pro Phe Ala Phe Phe Phe Leu  
35 40 45

Glu Ser Glu Gly Phe Ala Gly Leu Lys Lys Gly Ile Arg Ala Arg Ile  
50 55 60

Leu Glu Thr Leu Val Met Leu Leu Leu Leu Ala Leu Leu Ile Leu Gly  
65 70 75 80



Ile Val Trp Val Ala Ser Ala Leu Ile Asp Asn Asp Ala Ala Ser  
                             85                            90                            95

<210> 380  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 380  
 Pro Thr Arg Pro Val Leu Leu Leu Ala Ile Asn Gly Val Thr Glu Cys  
     1                            5                            10                            15

Phe Thr Phe Ala Ala Met Ser Lys Glu Glu Val Asp Arg Tyr Asn Phe  
                             20                            25                            30

Val

<210> 381  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<400> 381  
 Asn Asp Lys Lys Leu Leu Phe Leu Lys Gly Phe Trp Ser Ser Leu Lys  
     1                            5                            10                            15

Asn Glu Thr Pro Pro Pro His Phe Arg Leu Arg Met Val Thr Gly Val  
                             20                            25                            30

Ser Cys Ser Gly Thr Leu Trp Cys Leu Ile Ser Gly Val Ala Val Thr  
                             35                            40                            45

Pro Leu Gln Ser Pro Gln Trp Gly Ser Tyr Thr Glu Cys Val Pro Pro  
                             50                            55                            60

Thr Glu Leu Pro Ile Ala Gly Pro Gly Ala Ser Gly Val Gln Ala Ser  
     65                            70                            75                            80

Leu Lys Ser Arg His Phe Val Ser Ala Ser Gly His Thr  
                             85                            90

<210> 382  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<400> 382  
 Ser Glu Asn Arg Ile Tyr Arg Asn Gly Leu Glu Lys Met Arg Arg Glu  
     1                            5                            10                            15

Val Thr Ile Gly Arg Ser Ser Ser Ile Cys Leu Asp Gln Gln Val Lys  
                             20                            25                            30

Ala Gly Asn Ala Val His His Gln Trp Leu Lys Tyr Val Cys Trp Met  
 35 40 45

Val Val Val Val Gly Gly Ser Gly Val Gly Asp Gly Gly Asn Leu Gly  
 50 55 60

Met  
 65

<210> 383  
 <211> 129  
 <212> PRT  
 <213> Homo sapiens

<400> 383  
 Asn Trp Ser Gly Arg Arg Leu Arg Met Trp Pro Ser Ala Ala Leu Ser  
 1 5 10 15

Pro Ala Val Ser Ser Pro Ala Leu Ala Leu Thr Ser Pro Pro Lys Pro  
 20 25 30

Leu Lys Gly Glu Val Trp Leu Arg Trp Lys Leu Leu Gly Ser Arg Ala  
 35 40 45

Val Gly Leu Phe Ala Phe Ile Ala Leu Gly Thr Gln Ser Pro Leu Leu  
 50 55 60

His Arg Ala Cys Leu Pro Val Arg Gln Ser Trp Gly Cys Ser Glu His  
 65 70 75 80

Lys Ala Tyr Pro Ile Leu Arg Leu Gln Pro Asp Leu Glu Thr Gln Val  
 85 90 95

Gly Pro Gly His Gly Val Asn Trp Asp Leu Arg Thr Gln Ile Arg Thr  
 100 105 110

Ile Gly Glu Leu Gly Gly Asp Gly Gly Cys Ser Glu Met Arg Pro Leu  
 115 120 125

Phe

<210> 384  
 <211> 123  
 <212> PRT  
 <213> Homo sapiens

<400> 384  
 Asn Leu Phe Ser Thr Pro Cys Lys Arg Gln Lys Leu Ile Lys Leu Glu  
 1 5 10 15

Trp Thr Glu Ala Pro Asn Val Ala Leu Arg Cys Ser Leu Ser Cys Ser  
 20 25 30

Leu Ile Pro Gly Leu Ser Pro Asp Leu Ser Ser Glu Ala Pro Glu Gly  
 35 40 45

Arg Ser Val Ala Lys Met Glu Ile Ala Arg Gln Gln Ser Cys Trp Leu  
50 55 60

Val Cys Ile Tyr Cys Phe Arg Asn Pro Glu Ser Thr Leu Ala Pro Gly  
65 70 75 80

Leu Pro Ala Cys Glu Ala Glu Leu Gly Leu Leu Arg Ala Gln Gly Leu  
85 90 95

Pro His Pro Ala Ser Pro Ala Arg Leu Gly Asn Thr Gly Gly Ala Trp  
100 105 110

Pro Arg Ser Lys Leu Gly Ser Gln Asn Thr Asn  
115 120

<210> 385

<211> 26

<212> PRT

<213> Homo sapiens

<400> 385

Ser Ser Pro Ala Leu Ala Leu Thr Ser Pro Pro Lys Pro Leu Lys Gly  
1 5 10 15

Glu Val Trp Leu Arg Trp Lys Leu Leu Gly  
20 25

<210> 386

<211> 28

<212> PRT

<213> Homo sapiens

<400> 386

Glu His Lys Ala Tyr Pro Ile Leu Arg Leu Gln Pro Asp Leu Glu Thr  
1 5 10 15

Gln Val Gly Pro Gly His Gly Val Asn Trp Asp Leu  
20 25

<210> 387

<211> 28

<212> PRT

<213> Homo sapiens

<400> 387

Ala Leu Arg Cys Ser Leu Ser Cys Ser Leu Ile Pro Gly Leu Ser Pro  
1 5 10 15

Asp Leu Ser Ser Glu Ala Pro Glu Gly Arg Ser Val  
20 25

<210> 388

<211> 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 388

Leu Ala Pro Glu Cys Cys Cys Gly Ser Val Thr Tyr Pro Arg Ala Leu  
1 5 10 15

Val Pro Arg Pro Cys Cys Pro Glu Pro Arg Ala Pro Leu Gln Leu Thr  
20 25 30

Leu Gly Leu Phe Ser Ala Asn Pro Val Asn Ala Ser Pro Trp Gly Arg  
35 40 45

Cys Arg Ser Arg Arg Gly Arg Gly Asn Leu Pro Leu Gly His Pro Val  
50 55 60

Ser Thr Ala Phe Ser Ser Gly Asp Ser  
65 70

&lt;210&gt; 389

&lt;211&gt; 102

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 389

Asn Thr Leu His Ser Lys Leu Val Pro Ser Val Tyr His Ser Thr Glu  
1 5 10 15

Lys Ser Cys Leu Val Cys Phe Gly Met Cys Pro Ser Ile Tyr Lys Lys  
20 25 30

Met Lys Ser Val Leu Leu Ile Gly Thr Arg Met Leu Leu Trp Leu Ser  
35 40 45

His Ile Ser Gln Gly Pro Arg Pro Glu Ala Val Leu Pro Arg Ala Pro  
50 55 60

Ser Pro Ser Ala Ala His Pro Trp Leu Val Phe Arg Lys Pro Gly Lys  
65 70 75 80

Arg Lys Pro Leu Gly Gln Met Gln Lys Gln Lys Arg Glu Gly Lys Pro  
85 90 95

Ala Ser Gly Ser Pro Cys  
100

&lt;210&gt; 390

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 390

Tyr Pro Arg Ala Leu Val Pro Arg Pro Cys Cys Pro Glu Pro Arg Ala  
1 5 10 15

Pro Leu Gln Leu Thr Leu Gly Leu Phe

20

25

<210> 391  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 391  
Val Leu Leu Ile Gly Thr Arg Met Leu Leu Trp Leu Ser His Ile Ser  
1 5 10 15

Gln Gly Pro Arg Pro Glu Ala Val Leu Pro Arg  
20 25

<210> 392  
<211> 61  
<212> PRT  
<213> Homo sapiens

<400> 392  
Trp Ile Ile Val Met Phe Gly Lys Val Leu Lys Ile Lys Asp Phe Met  
1 5 10 15

Ser Thr Tyr Ser His Thr Tyr Thr His Thr His Met His Ala His Thr  
20 25 30

His Thr His Thr Leu Thr Leu Ser Leu Leu Gln Asn Val Leu Thr Leu  
35 40 45

Val Ala Ile Ser Asp Ser Asp Lys Ala Leu Leu Ile Phe  
50 55 60

<210> 393  
<211> 69  
<212> PRT  
<213> Homo sapiens

<400> 393  
Met Thr Leu Leu Ile Ala Glu Lys Thr Trp Arg Arg Pro Trp Pro Cys  
1 5 10 15

Gln Trp Gly Tyr Leu Gly Ala Glu Gly Asp Arg His Leu Glu Gly Arg  
20 25 30

Ser Leu Ser Leu Arg His Leu Gln Gly Ala Glu Thr Pro Val Leu Asn  
35 40 45

Pro Asp Leu Gln Leu Pro Ser His Ile Gly Lys Gln Ala Trp Ser His  
50 55 60

Ala Leu Gly Ser Leu  
65

<210> 394

<211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 394

Met Ser Thr Tyr Ser His Thr Tyr Thr His Thr His Met His Ala His  
 1 5 10 15

Thr His Thr His Thr Leu Thr Leu Ser Leu Leu  
 20 25

<210> 395  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 395

Gly Ala Glu Gly Asp Arg His Leu Glu Gly Arg Ser Leu Ser Leu Arg  
 1 5 10 15

His Leu Gln Gly Ala Glu Thr  
 20

<210> 396  
 <211> 133  
 <212> PRT  
 <213> Homo sapiens

<400> 396

Val Val Glu Pro Gly Leu Lys Ala Ser Leu Gly Ala Met Ser Thr Leu  
 1 5 10 15

Phe Pro Ser Leu Phe Pro Arg Val Thr Glu Thr Leu Trp Phe Asn Leu  
 20 25 30

Asp Arg Pro Cys Val Glu Glu Thr Glu Leu Gln Gln Gln Glu Gln Gln  
 35 40 45

His Gln Ala Trp Leu Gln Ser Ile Ala Glu Lys Asp Asn Asn Leu Val  
 50 55 60

Pro Ile Gly Lys Pro Ala Ser Glu His Tyr Asp Asp Glu Glu Glu Glu  
 65 70 75 80

Asp Asp Glu Asp Asp Glu Asp Ser Glu Glu Asp Ser Glu Asp Asp Glu  
 85 90 95

Asp Met Gln Asp Met Asp Glu Met Asn Asp Tyr Asn Glu Ser Pro Asp  
 100 105 110

Asp Gly Glu Val Asn Glu Val Asp Met Glu Gly Asn Glu Gln Asp Gln  
 115 120 125

Asp Gln Trp Met Ile  
 130

<210> 397  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 397  
Leu Phe Pro Arg Val Thr Glu Thr Leu Trp Phe Asn Leu Asp Arg Pro  
1 5 10 15  
Cys Val Glu Glu Thr Glu Leu  
20

<210> 398  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 398  
Tyr Asn Glu Ser Pro Asp Asp Gly Glu Val Asn Glu Val Asp Met Glu  
1 5 10 15  
Gly Asn Glu Gln Asp Gln Asp  
20

<210> 399  
<211> 101  
<212> PRT  
<213> Homo sapiens

<400> 399  
Met Gly Phe Asp Ile His Gly Val Leu Gly Glu Ala Val Ala Glu Pro  
1 5 10 15  
Arg Glu Lys Lys Gln Glu Arg Ala Lys Trp Ala Pro His Asp Tyr Asp  
20 25 30  
Asp Pro Ser Leu Ser Leu Gln Asp Leu Leu Ile Ser Trp Met Ile Ser  
35 40 45  
Thr Trp Leu Ile Pro Met Trp Lys Cys Gln Ala Thr Ile Trp Phe Ser  
50 55 60  
Leu Ile Gln Arg Leu Leu Asn Ala Tyr Cys Met Pro Gly Asn Phe Arg  
65 70 75 80  
His Trp Glu Ile Ala Ala Asn Thr Thr Asn Lys Thr Pro Gly Leu Met  
85 90 95  
Asp Phe Lys Phe Leu  
100

<210> 400  
<211> 27  
<212> PRT

<213> Homo sapiens

<400> 400

Glu Pro Arg Glu Lys Lys Gln Glu Arg Ala Lys Trp Ala Pro His Asp  
1 5 10 15

Tyr Asp Asp Pro Ser Leu Ser Leu Gln Asp Leu  
20 25

<210> 401

<211> 24

<212> PRT

<213> Homo sapiens

<400> 401

Met Pro Gly Asn Phe Arg His Trp Glu Ile Ala Ala Asn Thr Thr Asn  
1 5 10 15

Lys Thr Pro Gly Leu Met Asp Phe  
20

<210> 402

<211> 100

<212> PRT

<213> Homo sapiens

<400> 402

Gln Ser Val Pro Ser Pro Pro Leu Ala Pro Pro Leu Pro Pro Ser Leu  
1 5 10 15

Pro Ser Phe Leu Phe Thr Glu Thr Arg Ser His Tyr Val Ala Arg Leu  
20 25 30

Val Ser Asn Ser Trp Ala Gln Met Ile Leu Leu Pro Trp Pro Leu Lys  
35 40 45

Val Leu Gly Leu Asp Val Ser His Cys Ala Trp Pro Lys Ser Val Phe  
50 55 60

Leu Gln Ala Met Glu Glu Ile Ala Asp Phe Cys Leu Phe Ser Val Lys  
65 70 75 80

Tyr Gln Val Ser Ser Met Thr Cys Phe Asp Arg Thr Ser Tyr Met Lys  
85 90 95

Asn Thr Tyr Leu  
100

<210> 403

<211> 27

<212> PRT

<213> Homo sapiens

<400> 403

Leu Phe Thr Glu Thr Arg Ser His Tyr Val Ala Arg Leu Val Ser Asn



1

5

10

15

Ser Trp Ala Gln Met Ile Leu Leu Pro Trp Pro  
 20 25

&lt;210&gt; 404

&lt;211&gt; 159

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (124)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (142)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 404

Ser Gln Ile Lys Ser Glu Lys Lys His Ile Gly Lys Ala Tyr Thr Cys  
 1 5 10 15

Thr Gln Thr Gln Ser Thr Gly Met Gln Ser Thr Leu Thr Ile Val Ala  
 20 25 30

Lys Lys Lys Ser Arg Asn His Thr Glu Ser Tyr Thr Arg Lys Lys Gln  
 35 40 45

Glu Asn Gln Ile Val Leu Ile Pro Trp His Gln Lys Lys His Pro Glu  
 50 55 60

Gly Thr His Thr Cys Ser His Ser Leu Arg Arg Asp Thr Asn Thr Ala  
 65 70 75 80

Ala Asp Thr Gln Arg Lys Ile Arg Ala His Arg Tyr Thr Tyr Arg Arg  
 85 90 95

Asp Lys Tyr Ser Asp Thr Leu Val Thr His Asp His Tyr Lys Gly Asp  
 100 105 110

Lys His Pro Ser Asn Thr His Thr Gln Pro Arg Xaa Glu Phe Leu Gln  
 115 120 125

Pro Gly Gly Ser Thr Asn Ser Arg Ala Ala Ala Pro Arg Xaa Ser Ser  
 130 135 140

Ser Phe Cys Pro Phe Ser Glu Gly Tyr Ser Ser Trp Gly Tyr His  
 145 150 155

&lt;210&gt; 405

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 405

Gly Met Gln Ser Thr Leu Thr Ile Val Ala Lys Lys Lys Ser Arg Asn  
1 5 10 15

His Thr Glu Ser Tyr Thr Arg Lys Lys Gln  
20 25

&lt;210&gt; 406

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 406

Lys Lys His Pro Glu Gly Thr His Thr Cys Ser His Ser Leu Arg Arg  
1 5 10 15

Asp Thr Asn Thr Ala Ala Asp Thr  
20

&lt;210&gt; 407

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 407

Arg Arg Asp Lys Tyr Ser Asp Thr Leu Val Thr His Asp His Tyr Lys  
1 5 10 15

Gly Asp Lys His Pro Ser Asn Thr  
20

&lt;210&gt; 408

&lt;211&gt; 91

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 408

Lys His Leu Pro Leu Lys Ala Pro Ile Asp Leu Asp Asn Lys Asn Ser  
1 5 10 15

Cys Met Phe Cys Ser Arg Asp Ile Phe Cys Arg Phe His His Ser Thr  
20 25 30

Ala Trp Leu Phe Leu Gly Arg Ile Thr Asp Arg Ile Leu Gly Leu His  
35 40 45

His Tyr Leu Ile Arg Tyr Gln Phe Glu Ile Glu Asn Leu Cys Leu Met  
50 55 60

Lys Ile Val Ile Pro Val Val Ser Met Lys Thr Asn Cys Gln Phe Asp  
65 70 75 80

Phe Leu Gly Gln Leu Lys Gln Asn Leu Tyr His  
85 90

<210> 409  
<211> 28  
<212> PRT  
<213> Homo sapiens

<400> 409  
Ile Glu Asn Leu Cys Leu Met Lys Ile Val Ile Pro Val Val Ser Met  
1 5 10 15  
Lys Thr Asn Cys Gln Phe Asp Phe Leu Gly Gln Leu  
20 25

<210> 410  
<211> 21  
<212> PRT  
<213> Homo sapiens

<400> 410  
Ala Pro Ile Asp Leu Asp Asn Lys Asn Ser Cys Met Phe Cys Ser Arg  
1 5 10 15  
Asp Ile Phe Cys Arg  
20

<210> 411  
<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 411  
Gly Thr Ser Val Asn Glu Ser Val Ser Asn Ala Thr Ala Ile Asp Ser  
1 5 10 15  
Gln Ile Ala Arg Ser Leu His Ile Pro Leu Thr Gln Asp Ile Ala Gly  
20 25 30  
Asp Pro Ser Tyr Glu Ile Ser Lys Gln Arg Leu Ser Ile Val Ile Gly  
35 40 45  
Val Val Ala Gly Ile  
50

<210> 412  
<211> 220  
<212> PRT  
<213> Homo sapiens

<400> 412  
Pro Lys Ile Lys Met Ala Met Lys Pro Ala Lys Lys Ile Thr Lys Thr  
1 5 10 15  
Phe Leu His Pro Asn Ser Met Thr Asn Leu Lys Ser Leu Lys Arg Thr  
20 25 30

Arg Lys Thr Lys Asn Leu Ser Ser Leu Ser Thr Ala Ala Leu Ser Leu  
           35                                  40                                  45  
 Trp Arg Leu Leu Ser Gln Met Asp Arg Gly Met Ile Val Ser Met Arg  
           50                                  55                                  60  
 Ser Cys Gln Thr Ala Gln Ala Trp Gly Asp Thr Gly Pro Leu Met Val  
           65                                  70                                  75                                  80  
 Gly Pro Ala Val Leu Thr Trp Gln Gly Ile Thr Asn Leu Val Pro His  
                                   85                                  90                                  95  
 Cys Leu Leu Phe Ser Phe Ile Pro Ser His Gln Leu Gln Glu Lys Asn  
                                   100                                  105                                  110  
 Thr Arg Pro Tyr Lys Ile Tyr His Gln Pro Thr His Leu Trp Glu Gln  
           115                                  120                                  125  
 Glu Thr Thr Phe Gln Leu Asp Gln Ile Thr Ala Leu Ser Thr Ala Val  
           130                                  135                                  140  
 Lys Pro Ile Thr Ser Thr Ala Asn Arg Cys Val Tyr Ile His Thr Leu  
           145                                  150                                  155                                  160  
 Leu Cys Leu Ala Glu Phe His Ser Asn Met Met Leu His Tyr Ala Pro  
                                   165                                  170                                  175  
 Tyr Cys Asp Asp Leu Ser Thr Pro Lys Pro Ala Gly Ala Cys Pro Trp  
                                   180                                  185                                  190  
 Pro Trp Gly Val Ser Gln Ser Leu Leu Val Pro Leu Val Val His Phe  
           195                                  200                                  205  
 Ile Phe Glu Ser Phe Ser Phe Ser Tyr Thr Glu Lys  
           210                                  215                                  220

&lt;210&gt; 413

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 413

Cys Ser Ile Met His His Thr Val Met Thr Phe Leu Leu Arg Asn Leu  
           1                                  5                                  10                                  15  
 Leu Glu Pro Ala Leu Gly Arg Gly Val Ser Ala Asn His Cys Leu Phe  
                                   20                                  25                                  30  
 His Leu Leu Tyr Ile Leu Phe Leu Ser Leu Phe Leu Ser His Ile Gln  
           35                                  40                                  45  
 Lys Asn Ser Met Lys Ile Lys  
           50                                  55

&lt;210&gt; 414

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 414

Thr Ala Ile Asp Ser Gln Ile Ala Arg Ser Leu His Ile Pro Leu Thr  
1 5 10 15

Gln Asp Ile Ala Gly Asp Pro Ser Tyr Glu Ile Ser Lys  
20 25

&lt;210&gt; 415

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 415

Tyr Cys Arg Ser Lys Asn Lys Asn Gly Tyr Glu Ala Gly Lys Lys Asp  
1 5 10 15

His Glu Asp Phe Phe  
20

&lt;210&gt; 416

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 416

Gly Pro Gly Ser Pro Asp Leu Ala Arg His Tyr Lys Ser Ser Ser Pro  
1 5 10 15

Leu Pro Thr Val Gln  
20

&lt;210&gt; 417

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 417

Leu Pro Pro Ala Asn Thr Phe Val Gly Ala Gly Asp Asn Ile Ser Ile  
1 5 10 15

Gly Ser Asp His Cys Ser Glu Tyr Ser  
20 25

&lt;210&gt; 418

&lt;211&gt; 119

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 418

Gly Thr Ser Asn Ala Ser Val Ser Pro Thr Ile Cys Ile Cys Met Cys  
1 5 10 15

Gly Tyr Val His Ile Trp Phe Phe Ile Cys Leu Cys Val Tyr Leu Lys  
20 25 30

Val Leu Gln Gly Ser Ala Cys Pro Trp Ile Ala Ala Ala Val Val Met  
35 40 45

Arg Arg Met Arg Lys Val Gln Glu Lys Gly Glu Val Phe Arg Asn Met  
50 55 60

Ala Ala Thr Trp Ala Leu Arg Ser Gly Ile Gln Ser Leu Asn Ser Leu  
65 70 75 80

Val Ser Ser Ala Phe Phe Thr Ile Phe Met Thr Leu Gly Ser Ser Trp  
85 90 95

Asn Leu Ile Val Ser Leu Ser Ser Leu Val Asn Trp Thr Gly Leu Phe  
100 105 110

Ser Phe Tyr Phe Ser Arg Asn  
115

<210> 419  
<211> 28  
<212> PRT  
<213> Homo sapiens

<400> 419  
Cys Leu Cys Val Tyr Leu Lys Val Leu Gln Gly Ser Ala Cys Pro Trp  
1 5 10 15

Ile Ala Ala Ala Val Val Met Arg Arg Met Arg Lys  
20 25

<210> 420  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 420  
Thr Ile Phe Met Thr Leu Gly Ser Ser Trp Asn Leu Ile Val Ser Leu  
1 5 10 15

Ser Ser Leu Val Asn Trp Thr Gly Leu Phe  
20 25

<210> 421  
<211> 58  
<212> PRT  
<213> Homo sapiens

<400> 421  
Gln Pro Asp Ile Pro Val Leu Pro Val Gly Phe Ser Gln Asn Cys Ser  
1 5 10 15

Phe Lys Val Ser Gly Cys Trp Lys Gly Gly Leu Ile Ala Glu Lys Val  
20 25 30

Gly Thr Leu Gly Thr Pro Lys Gly Arg Arg Ala Trp Pro Glu Thr Glu  
35 40 45

Phe Phe Arg Phe Leu Glu Pro Gly Leu Pro  
50 55

<210> 422

<211> 131

<212> PRT

<213> Homo sapiens

<400> 422

Arg Gly Phe Arg Met Ala Gln Pro Leu Val Asn Thr Phe Gln Val Ala  
1 5 10 15

Val Pro Val Glu Asp Leu Ala Pro Gln Gln Asn Pro Ser Arg Phe Pro  
20 25 30

Ala Asp Pro Ala Leu Leu Ser Phe Leu Thr Gly Ser Ile Leu Ala Pro  
35 40 45

Gly Lys Val Ile Trp Val Asn Val Ser Phe Thr Ala Ile Ile Trp Pro  
50 55 60

Thr Trp Asp Ser Met Ala Ile Gly Glu Leu Thr Ile Ala Ser His Ala  
65 70 75 80

Ser Met Thr Leu His Ile Gly Arg Pro Gly Ser Arg Lys Arg Lys Asn  
85 90 95

Ser Val Ser Gly His Ala Arg Leu Pro Phe Gly Val Pro Ser Val Pro  
100 105 110

Thr Phe Ser Ala Ile Ser Pro Pro Phe Gln Gln Pro Glu Thr Leu Lys  
115 120 125

Glu Gln Phe  
130

<210> 423

<211> 24

<212> PRT

<213> Homo sapiens

<400> 423

Glu Asp Leu Ala Pro Gln Gln Asn Pro Ser Arg Phe Pro Ala Asp Pro  
1 5 10 15

Ala Leu Leu Ser Phe Leu Thr Gly  
20

<210> 424

<211> 29  
<212> PRT  
<213> Homo sapiens

<400> 424  
Thr Trp Asp Ser Met Ala Ile Gly Glu Leu Thr Ile Ala Ser His Ala  
1 5 10 15  
Ser Met Thr Leu His Ile Gly Arg Pro Gly Ser Arg Lys  
20 25

<210> 425  
<211> 71  
<212> PRT  
<213> Homo sapiens

<400> 425  
Val Ser Pro Gln Leu Met Gly Ile Lys Arg Glu Pro Ser Ala Ala Gln  
1 5 10 15  
Leu Ser Val Gly Glu Glu His Thr Leu Asp Arg Glu Gly Arg Glu Leu  
20 25 30  
Val Asp Leu Pro Gly Gln Pro Ser Gln Lys Ile Lys Ile Lys Asn Lys  
35 40 45  
Ser Ser Leu His Pro Gly Leu Ile Ile Pro Pro Ala His Tyr Lys Thr  
50 55 60  
Ala Thr Thr Thr Asn Leu Phe  
65 70

<210> 426  
<211> 21  
<212> PRT  
<213> Homo sapiens

<400> 426  
Pro Ser Ala Ala Gln Leu Ser Val Gly Glu Glu His Thr Leu Asp Arg  
1 5 10 15  
Glu Gly Arg Glu Leu  
20

<210> 427  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 427  
Asn Cys Asp His Asp Phe Ile Gln Pro Leu His Thr Pro Met Ser Ala  
1 5 10 15  
Leu Phe Gln Ser Glu Phe Ser  
20



<210> 428  
 <211> 107  
 <212> PRT  
 <213> Homo sapiens

<400> 428  
 Ser Ile Leu Asn Met Gly Leu Phe Thr Glu Gln Arg Pro Trp Pro Ala  
   1                  5                  10                  15  
 Ala Ala Arg Cys Ala Arg Gln Ser Thr Val Ala Gly Ala Ile Arg Arg  
           20                  25                  30  
 Ala Arg Gly Thr Val Thr Met Trp Gln Val Ala Gly Ala Ala Trp Ala  
           35                  40                  45  
 Ser Pro Asp Arg Arg Ala Lys Val His Pro Cys Arg His Ala Ala Pro  
           50                  55                  60  
 Cys Leu Pro Ser Pro Cys Arg Arg Gly Leu Gln Met Ser Gly Pro Leu  
           65                  70                  75                  80  
 Gln Ala Thr Arg Gly Arg Val Thr Leu Arg Ser His Gln Val Gly Cys  
                   85                  90                  95  
 Lys Arg Ala Thr Gly Ser Ile Glu Asn Ser Leu  
           100                  105

<210> 429  
 <211> 114  
 <212> PRT  
 <213> Homo sapiens

<400> 429  
 Gln Lys Ser Lys Gly Ser Pro Leu Gln Thr Cys Cys Ser Leu Pro Thr  
   1                  5                  10                  15  
 Leu Pro Met Gln Glu Arg Pro Ala Asp Glu Trp Ser Thr Pro Gly Asp  
           20                  25                  30  
 Gln Gly Lys Ser Tyr Ile Lys Lys Pro Pro Gly Gly Leu Gln Lys Gly  
           35                  40                  45  
 His Arg Leu His Arg Lys Leu Thr Leu Lys Gln Gly Arg His Arg Gly  
           50                  55                  60  
 Val Glu Gly Leu Asn Glu Ile Met Val Thr Val Leu Lys Glu Glu Phe  
           65                  70                  75                  80  
 Pro Val Ser Lys Pro Gly Leu Asn Val Leu Pro Thr Phe His Arg His  
                   85                  90                  95  
 His Glu Cys Tyr Gln His Gly Met Asn Leu Thr Ala Arg Ile Ser Val  
           100                  105                  110

Val Ser

<210> 430  
<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 430  
Ala Arg Gln Ser Thr Val Ala Gly Ala Ile Arg Arg Ala Arg Gly Thr  
1 5 10 15  
Val Thr Met Trp Gln Val Ala Gly Ala  
20 25

<210> 431  
<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 431  
Pro Cys Arg Arg Gly Leu Gln Met Ser Gly Pro Leu Gln Ala Thr Arg  
1 5 10 15  
Gly Arg Val Thr Leu Arg Ser His Gln  
20 25

<210> 432  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 432  
Leu Pro Met Gln Glu Arg Pro Ala Asp Glu Trp Ser Thr Pro Gly Asp  
1 5 10 15  
Gln Gly Lys Ser Tyr Ile Lys Lys Pro Pro  
20 25

<210> 433  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 433  
Asn Val Leu Pro Thr Phe His Arg His His Glu Cys Tyr Gln His Gly  
1 5 10 15  
Met Asn Leu Thr Ala Arg Ile  
20

<210> 434  
<211> 40  
<212> PRT

<213> Homo sapiens

<400> 434

Ile Asn Val Leu Tyr Cys Ser Arg Asp Ser Leu Met Gly Arg Thr Ile  
1 5 10 15

Met Glu Ser Ser Asp Tyr Ile Lys Lys Gly Ala Asn Val Ser Pro Val  
20 25 30

Leu Gly Val Arg Gln Gln Ala Val  
35 40

<210> 435

<211> 28

<212> PRT

<213> Homo sapiens

<400> 435

Ser Leu Leu Met Tyr Phe Val Phe Lys Ile Phe Phe Gln Ser Leu Cys  
1 5 10 15

Val Leu Gly Tyr Cys Ile Leu Pro Leu Thr Val Ala  
20 25

<210> 436

<211> 50

<212> PRT

<213> Homo sapiens

<400> 436

Arg Leu Trp Met Thr Lys Ala His Pro Ala Leu Arg His Leu Leu Leu  
1 5 10 15

Leu Phe Thr Leu Ala Leu Thr Leu Leu Ala Gln Gly Cys Cys Ala Val  
20 25 30

Ala Pro Ser Gly Cys Ala Asp Leu Ala Gly Phe Cys Ser Leu Gly His  
35 40 45

Ser Cys  
50

<210> 437

<211> 48

<212> PRT

<213> Homo sapiens

<400> 437

Arg Thr Cys Thr Pro Trp Met Gly Phe Trp Cys Leu Val Cys Ser Leu  
1 5 10 15

Phe Ala Pro Val Pro Thr Ser Arg Lys Tyr Leu Val Ser Lys Pro Gly  
20 25 30

Cys Tyr Gln Arg Arg Arg Val Phe Gly Val Cys Phe Thr Lys Pro Leu

35

40

45

<210> 438  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 438  
Trp Leu Leu Ser Glu Lys Lys Gly  
1 5

<210> 439  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 439  
Gly Val Phe Tyr Lys Ala Ala Val Ile Gly  
1 5 10

<210> 440  
<211> 45  
<212> PRT  
<213> Homo sapiens

<400> 440  
Cys Lys Thr Ser Pro Leu Pro Lys Glu Gly Gln Ser Ala Val Ser Val  
1 5 10 15

Pro Val Ser Ser His Phe Leu Ala His Ser Ala Pro Leu Ser Gly Gly  
20 25 30

His Ala His Val Phe Ala Arg Asp Gly Ala Thr Gly Leu  
35 40 45

<210> 441  
<211> 140  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 441  
Leu Gly Arg Gly Ser Gly Glu Arg Lys Thr Pro Val Ser Cys Phe Ala  
1 5 10 15

Gln Ile Ser Lys Ser Arg Gly Gly Arg Ser Lys Ser Leu Thr His Leu  
20 25 30

Cys Thr His Thr His Thr Gln Val Thr Glu Leu Asp Val Arg Met Ser  
           35                          40                          45  
 His Gly Cys Leu Arg Xaa Gln His Ala Gly Arg Leu Ala Pro Pro Pro  
           50                          55                          60  
 Pro Leu Arg Phe Cys Leu Thr Ala Cys Trp Gly Arg Arg Gly Glu Ala  
           65                          70                          75                          80  
 Glu Thr Val Trp Lys Asp Pro Ala Ser Ser Gln His Pro Pro Pro Ser  
                           85                          90                          95  
 Glu Lys Pro His Arg Gln Asp Arg His Pro Glu Arg Trp His Gln Pro  
                   100                          105                          110  
 Gly Gly Pro Ile Pro Gly Lys His Met Arg Val Ser Pro Gly Gln Arg  
           115                          120                          125  
 Gly Arg Val Cys Gln Glu Met Gly Arg Asn Arg Asn  
           130                          135                          140

<210> 442  
 <211> 102  
 <212> PRT  
 <213> Homo sapiens

<400> 442  
 Phe Cys Leu Arg Asp Phe Lys Ile Trp Arg Gly Arg Leu Glu Ala Gly  
   1                          5                          10                          15  
 Arg Thr Glu Gly Arg Leu Ala Gly Glu Arg Phe Gly Gly Glu Glu Asp  
           20                          25                          30  
 Pro Ser Phe Leu Phe Cys Ser Asp Phe Lys Val Glu Gly Trp Ala Phe  
           35                          40                          45  
 Glu Ile Ser His Ser Leu Val His Thr His Thr His Thr Gly His Gly  
           50                          55                          60  
 Ala Gly Arg Ala Asp Val Thr Arg Val Pro Ala Gly Thr Ala Arg Trp  
           65                          70                          75                          80  
 Glu Ala Gly Ser Pro Thr Pro Ser Pro Val Leu Phe Asp Ser Leu Leu  
                           85                          90                          95  
 Gly Ala Ala Gly Arg Gly  
           100

<210> 443  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 443  
 Ala Gln Ile Ser Lys Ser Arg Gly Gly Arg Ser Lys Ser Leu Thr His

1

5

10

15

Leu Cys Thr His Thr His Thr Gln Val Thr Glu Leu  
20 25

&lt;210&gt; 444

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 444

Glu Lys Pro His Arg Gln Asp Arg His Pro Glu Arg Trp His Gln Pro  
1 5 10 15

Gly Gly Pro Ile Pro Gly Lys His Met Arg  
20 25

&lt;210&gt; 445

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 445

Gly Arg Leu Glu Ala Gly Arg Thr Glu Gly Arg Leu Ala Gly Glu Arg  
1 5 10 15

Phe Gly Gly Glu Glu Asp Pro Ser Phe Leu  
20 25

&lt;210&gt; 446

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 446

Val Thr Arg Val Pro Ala Gly Thr Ala Arg Trp Glu Ala Gly Ser Pro  
1 5 10 15

Thr Pro Ser Pro Val Leu Phe  
20

&lt;210&gt; 447

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 447

Asp Glu Gly Val Gln Gly Glu Arg Leu Phe Arg Ile Leu Arg Ile Asn  
1 5 10 15

Gly Glu Lys Pro Tyr Asn Phe Val Asp Tyr Phe His Cys Glu Tyr  
20 25 30

<210> 448  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (59)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (62)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (66)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 448  
 Lys Val Val Arg Ile Asp Asn Gly Ile Leu Cys Ser His Lys Lys Thr  
     1                    5                    10                    15  
 Glu Ile Met Ser Leu Gln Gln His Gly Trp Ile Trp Arg Pro Tyr Leu  
                     20                    25                    30  
 Lys Gln Thr Asn Thr Gly Thr Glu Asn Gln Ile Pro His Thr Leu Thr  
                     35                    40                    45  
 Tyr Lys Trp Glu Leu Asn Phe Glu Tyr Ile Xaa Thr Gln Xaa Arg Gly  
                     50                    55                    60  
 Xaa Xaa Asp Ser Glu Ala Tyr Leu Lys Val Glu Gly Gly Arg Arg Glu  
                     65                    70                    75                    80  
 Gly Ile Gln Lys Leu Pro Ile Arg Tyr Tyr Val Tyr Tyr Leu Gly Asp  
                     85                    90                    95  
 Lys Ile Ile Cys Thr Ser Ser Ser Cys Ser Met His Leu Leu Met  
                     100                    105                    110

<210> 449  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 449  
 His Lys Asp Thr Cys Met Ser Met Phe Thr Ala Ala Leu Phe Thr Ile  
     1                    5                    10                    15  
 Ala Lys Thr Trp Asn

20

<210> 450  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 450  
Met Pro Ile Asn Asp Arg Leu Asp Phe Lys Arg Trp Tyr Val  
1 5 10

<210> 451  
<211> 47  
<212> PRT  
<213> Homo sapiens

<400> 451  
Thr Met Glu Ser Tyr Val Ala Ile Lys Arg Gln Arg Ser Cys Pro Cys  
1 5 10 15  
Ser Asn Met Val Gly Ser Gly Gly His Ile Leu Ser Lys Leu Thr Gln  
20 25 30

Glu Gln Lys Thr Lys Tyr His Ile Leu Ser Leu Ile Ser Gly Ser  
35 40 45

<210> 452  
<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 452  
Glu Ile Met Ser Leu Gln Gln His Gly Trp Ile Trp Arg Pro Tyr Leu  
1 5 10 15

Lys Gln Thr Asn Thr Gly Thr Glu Asn  
20 25

<210> 453  
<211> 24  
<212> PRT  
<213> Homo sapiens

<400> 453  
Arg Arg Glu Gly Ile Gln Lys Leu Pro Ile Arg Tyr Tyr Val Tyr Tyr  
1 5 10 15

Leu Gly Asp Lys Ile Ile Cys Thr  
20

<210> 454  
<211> 57  
<212> PRT



<213> Homo sapiens

<400> 454

Leu His Gly Glu Gln Val Pro Ile Tyr Ile Phe Leu Leu Met Gln Pro  
1 5 10 15

Leu Asn Phe Glu Cys Ile Ser Phe Leu Asn Cys Ile Glu Gln Tyr Ser  
20 25 30

Val Gly Val Ile His Asn Ser Val Thr Ile Tyr Ala Cys Asp Arg Glu  
35 40 45

Glu Asn Cys Met Asp Ile Arg Tyr Leu  
50 55

<210> 455

<211> 12

<212> PRT

<213> Homo sapiens

<400> 455

Gly Thr Ser Trp Ala Ser Arg Phe Phe Thr Cys His  
1 5 10

<210> 456

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 456

Gly Pro Pro Arg Xaa Phe Xaa Pro Lys Lys Ala Ile Leu Gly Xaa Pro

Trp Pro Ser Phe Ile

65

&lt;210&gt; 459

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 459

Met Lys Glu Gly Gln Gly His Val Leu Tyr Phe Ser Arg Val Asn Cys  
1 5 10 15

Lys Ala Gly His Xaa Thr Cys Arg Gln Arg Lys Pro Ala Asp Glu Leu  
20 25 30

Val Cys Phe Ala Phe Gln Glu Gln Ala Pro Cys Ile Leu Leu Asn Ile  
35 40 45

Arg Leu Gln Val Leu Asn Lys Tyr Leu Pro Asn Thr His Phe Leu Phe  
50 55 60

Cys Val Thr Val Pro  
65

&lt;210&gt; 460

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 460

Thr Met Thr Gly Ile Asp Ser Ser Pro Glu Glu Ile Leu Arg Gln Val  
1 5 10 15

Gly Cys Lys Gln Gln Gln Gly Lys Gly Val Glu His Val Glu Gly Ser  
20 25 30

Ser Ala Glu Ala Gly Glu Ala Ala Arg Gly Gly Gly Ala Lys Gly Gly  
35 40 45

Gly Gly Ala Ala Gly Lys Gly Thr Ser Lys Val Gly Thr Leu Arg Arg  
50 55 60

Thr Arg Gly Ser Thr  
65

&lt;210&gt; 461

&lt;211&gt; 185

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 461

Ala Gln Arg Glu Ala Gly Ser Arg Pro Arg Arg Arg Lys Ser Leu Lys  
 1 5 10 15

Ala Val Ala Met Leu Xaa Val Glu Met Gly Gly Gly Cys Arg Gly Ser  
 20 25 30

Met Gly Pro Gly Pro Gly Tyr Ser Ala Gly Ser Arg Val Cys Arg Gly  
 35 40 45

Ser Ser Leu Pro Gln Val Ala Pro Phe Asn Pro Ser Arg Ala His Leu  
 50 55 60

Leu Pro Pro Pro Val Gly Gly Gly Leu Asn Ser Val Trp Leu Ser Gly  
 65 70 75 80

Val Gln Leu Ser Thr Pro Pro Tyr Ala Asp Trp Glu Gly Val Gly Gln  
 85 90 95

Ser Pro Gln Pro Arg Gly Pro Trp Met Gly Ser Ser Ser Leu Gly Thr  
 100 105 110

Val Gly Pro Gly Cys Val Leu Ser Gly Cys Pro Thr Val Lys Ala Asn  
 115 120 125

Gly Gly Ser Pro Cys Ser Glu Met Leu Gly Glu Arg Arg Leu Leu Glu  
 130 135 140

Pro Ser Val Gly Pro Val Ser Gly Cys Pro Glu Arg Arg Glu Gly Gly  
 145 150 155 160

His Gly Ala Arg Gly Ala Ala Gly Val Val Val Lys Gly His Ala Ser  
 165 170 175

Val Gln Leu Asn Phe Leu Ser Leu Ile  
 180 185

&lt;210&gt; 462

&lt;211&gt; 102

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 462

Lys Ala Glu Phe Thr Phe Ala Lys Glu Lys Asn Ala Lys Ala Gln Leu  
 1 5 10 15

Gly Lys Lys Gly Thr Arg Trp Val Lys His Asp Lys Arg Lys Glu Ile  
 20 25 30

Gln Leu Tyr Gly Cys Val Thr Leu Asn Asp Asp Pro Ser Cys Pro Pro  
 35 40 45

Cys Pro Val Pro Thr Leu Pro Pro Phe Trp Thr Ala Thr Tyr Gly Ser

50

55

60

His Gly Arg Phe Gln Lys Pro Pro Phe Ser Gln His Leu Arg Ala Gly  
65 70 75 80

Gly Ala Pro Val Gly Leu Asp Cys Gly Ala Pro Thr Gln Tyr Ala Ala  
85 90 95

Arg Pro His Gly Pro Lys  
100

&lt;210&gt; 463

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 463

Gly Cys Arg Gly Ser Met Gly Pro Gly Pro Gly Tyr Ser Ala Gly Ser  
1 5 10 15

Arg Val Cys Arg Gly Ser Ser Leu Pro Gln  
20 25

&lt;210&gt; 464

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 464

Gln Pro Arg Gly Pro Trp Met Gly Ser Ser Ser Leu Gly Thr Val Gly  
1 5 10 15

Pro Gly Cys Val Leu Ser  
20

&lt;210&gt; 465

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 465

Gly Ala Ala Gly Val Val Val Lys Gly His Ala Ser Val Gln Leu Asn  
1 5 10 15

Phe Leu Ser Leu Ile  
20

&lt;210&gt; 466

&lt;211&gt; 94

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 466

Gly Lys Pro Leu Ser Ala Ile Phe Pro Ile Cys His Met Met Phe Leu

1 5 10 15  
Pro Gly Lys Phe Asn Leu Gly Ile Ser His Arg Cys Cys Arg Met Thr  
20 25 30  
Ser Pro Trp Asp Lys Arg Gln Gln Leu Arg Gln Glu Cys Lys Ser Asp  
35 40 45  
Pro His Val Gln Asn Pro Arg Ile His Phe Pro Glu Ser Lys Asn Ser  
50 55 60  
Phe Pro Ser Ala Tyr Ile Phe Val Ser Glu Gly Asn Gly Val Ser Pro  
65 70 75 80  
Ser Lys Trp His Cys Ile Tyr Ser Gly Thr Ser Leu Ser His  
85 90

<210> 467  
<211> 62  
<212> PRT  
<213> Homo sapiens

<400> 467  
Gly Glu Arg Gly Arg Tyr Gln Ser Lys Tyr Ser Ala Thr Trp Met Val  
1 5 10 15  
Thr Pro His Tyr Leu Gln Thr Gln Arg Cys Lys Leu Arg Glu Met Asn  
20 25 30  
Ser Trp Ile Gln Gly Asn Glu Phe Leu Asp Ser Glu His Glu Gly Gln  
35 40 45  
Ile Tyr Ile Pro Val Ser Ile Val Asp Ala Tyr Pro Lys Asp  
50 55 60

<210> 468  
<211> 107  
<212> PRT  
<213> Homo sapiens

<400> 468  
Ile Ser Ile Arg Gly Arg Ile Leu Tyr Lys Met Ala Tyr Phe Lys Val  
1 5 10 15  
Cys Val Ile Ile Trp Phe Gln Gln Phe Cys Val Glu Glu Thr Ser Ile  
20 25 30  
Ile Lys Asn Val Arg Met Leu Thr Ser Glu Phe Gln Asn Ser Tyr Ala  
35 40 45  
Thr Pro Val Ser Gly Leu Leu Pro Gly Ala Val Ala Trp Arg Gly Gly  
50 55 60  
Ala Val Tyr Gly Trp Val Arg His Ala Met Gln Val Leu Gln Lys Glu  
65 70 75 80

Pro Thr Gln Pro Ser Ser Phe Leu Pro Pro Ser Asp Ala Ala Ser Phe  
85 90 95

Trp Gly Pro Glu Ser Arg Leu His Leu Thr Trp  
100 105

<210> 469  
<211> 86  
<212> PRT  
<213> Homo sapiens

<400> 469  
Lys Pro Phe Ala Phe Ser Ala Arg Asn Phe Pro Thr Met Leu Ser Glu  
1 5 10 15

Ala Tyr Phe Gln Asp Pro Arg Met Arg Gln His His Leu Gly Val Glu  
20 25 30

Arg Met Thr Val Ala Trp Val Pro Ser Ala Ile Pro Ala Trp Arg Ala  
35 40 45

Ser Pro Thr Arg Thr Gln His His Pro Ser Lys Pro Gln His Gln Glu  
50 55 60

Gly Ala Gln Lys Gln Gly Trp His Met Asn Ser Gly Ile Leu Met Ser  
65 70 75 80

Ala Tyr Glu His Phe Leu  
85

<210> 470  
<211> 60  
<212> PRT  
<213> Homo sapiens

<400> 470  
His Ser Lys Gln Asn Ile Cys Arg Glu Val Asn Ile Leu Lys Met Phe  
1 5 10 15

Leu His Glu Ile Lys Lys Thr Val Thr Asp Asn Ile Ser Thr Gln Arg  
20 25 30

Arg Phe Thr Tyr Asn His Gln Pro Gly Ser Val Ser Ile Phe Ser Val  
35 40 45

Thr Asp Ile Leu Asp Phe Glu Val Pro Phe Gly Leu  
50 55 60

<210> 471  
<211> 57  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 471

Lys Val Ile Asp Val Ile Phe Ser Leu Pro Pro Gly Arg Lys Ala Thr  
1 5 10 15

Phe Ser Cys Pro Leu Ala Pro Leu Ser Gly Ala Xaa Gly Leu Pro Gly  
20 25 30

Gly Gly Ala Asn Arg Pro Gly Pro Phe Leu Pro Cys Ile Gln Pro Trp  
35 40 45

Gly Pro Leu Arg Leu Pro Glu Gly Cys  
50 55

&lt;210&gt; 472

&lt;211&gt; 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 472

Met Ser Ser Ser Leu Cys Pro Gln Gly Gly Lys Pro Pro Ser Leu Ala  
1 5 10 15

Pro Trp Pro Leu Cys Gln Gly Pro Xaa Val Cys Arg Val Gly Val Pro  
20 25 30

Thr Gly Leu Ala Leu Ser Ser Pro Ala Ser Ser His Gly Gly Leu Cys  
35 40 45

Asp Cys Arg Lys Val Ala Trp Leu Val Pro Gly Pro Ala Gln Ala Arg  
50 55 60

Gly Arg Ala Ala Trp Phe Tyr Phe Tyr Leu Thr Leu Phe Ser Val Leu  
65 70 75 80

&lt;210&gt; 473

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 473

Leu Ala Leu Ser Ser Pro Ala Ser Ser His Gly Gly Leu Cys Asp Cys  
1 5 10 15

Arg Lys Val Ala Trp Leu Val Pro Gly Pro  
20 25



<210> 474  
<211> 160  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (124)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 474  
Met Gln Arg Glu Arg Trp Ala Arg Pro Trp Met Ala Ser Thr Val Glu  
1 5 10 15  
Ser Arg Met Pro Glu Gly Lys Trp Arg Arg Phe Ser Thr Asp Leu Ala  
20 25 30  
Thr Trp Gly Ala Thr Pro Ala Arg Ser Trp Thr Lys Ala Ser Arg Gly  
35 40 45  
Ser Thr Thr Ala Trp Thr Arg Leu Pro Met Arg Ser Thr Met Val Leu  
50 55 60  
Asp Lys Gln Glu Arg Lys Gln Arg Ser Leu Ala Met Gly Ser Thr Thr  
65 70 75 80  
Leu Leu Asp Arg Pro Gly Arg Lys Gln Thr Lys Arg Ser Lys Gly Ser  
85 90 95  
Thr Leu Gly Ser Thr Arg Leu Gly Arg Lys Gln Arg Asn Leu Ala Lys  
100 105 110  
Gly Ser Thr Met Leu Leu Thr Arg Leu Glu Arg Xaa Trp Arg Ser Leu  
115 120 125  
Ala Gln Val Pro Thr Met Leu Leu Ala Arg Pro Gly Arg Ser Cys Arg  
130 135 140  
Met Leu Ile Met Gly Ser Thr Lys Pro Ala Arg Arg Pro Thr Ser Cys  
145 150 155 160

<210> 475  
<211> 264  
<212> PRT  
<213> Homo sapiens

<400> 475  
Met Arg Pro Leu Leu Gly Leu Leu Leu Val Phe Ala Gly Cys Thr Phe  
1 5 10 15  
Ala Leu Tyr Leu Leu Ser Thr Arg Leu Pro Arg Gly Arg Arg Leu Gly  
20 25 30

Ser Thr Glu Glu Ala Gly Gly Arg Ser Leu Trp Phe Pro Ser Asp Leu  
 35 40 45  
 Ala Glu Leu Arg Glu Leu Ser Glu Val Leu Arg Glu Tyr Arg Lys Glu  
 50 55 60  
 His Gln Ala Tyr Val Phe Leu Leu Phe Cys Gly Ala Tyr Leu Tyr Lys  
 65 70 75 80  
 Gln Gly Phe Ala Ile Pro Gly Ser Ser Phe Leu Asn Val Leu Ala Gly  
 85 90 95  
 Ala Leu Phe Gly Pro Trp Leu Gly Leu Leu Cys Cys Val Leu Thr  
 100 105 110  
 Ser Val Gly Ala Thr Cys Cys Tyr Leu Leu Ser Ser Ile Phe Gly Lys  
 115 120 125  
 Gln Leu Val Val Ser Tyr Phe Pro Asp Lys Val Ala Leu Leu Gln Arg  
 130 135 140  
 Lys Val Glu Glu Asn Arg Asn Ser Leu Phe Phe Phe Leu Leu Phe Leu  
 145 150 155 160  
 Arg Leu Phe Pro Met Thr Pro Asn Trp Phe Leu Asn Leu Ser Ala Pro  
 165 170 175  
 Ile Leu Asn Ile Pro Ile Val Gln Phe Phe Phe Ser Val Leu Ile Gly  
 180 185 190  
 Leu Ile Pro Tyr Asn Phe Ile Cys Val Gln Thr Gly Ser Ile Leu Ser  
 195 200 205  
 Thr Leu Thr Ser Leu Asp Ala Leu Phe Ser Trp Asp Thr Val Phe Lys  
 210 215 220  
 Leu Leu Ala Ile Ala Met Val Ala Leu Ile Pro Gly Thr Leu Ile Lys  
 225 230 235 240  
 Lys Phe Ser Gln Lys His Leu Gln Leu Asn Glu Thr Ser Thr Ala Asn  
 245 250 255  
 His Ile His Ser Arg Lys Asp Thr  
 260

&lt;210&gt; 476

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 476

Asp Ile Met Pro Ala Ser Val Ile Phe Leu Ile Cys Glu Gly Val Leu  
 1 5 10 15

Tyr Gly Val Gln Gly  
 20

<210> 477  
 <211> 180  
 <212> PRT  
 <213> Homo sapiens

<400> 477  
 Gly Thr Ala Phe Gln His Ala Phe Ser Thr Asn Asp Cys Ser Arg Asn  
 1 5 10 15  
 Val Tyr Ile Lys Lys Asn Gly Phe Thr Leu His Arg Asn Pro Ile Ala  
 20 25 30  
 Gln Ser Thr Asp Gly Ala Arg Thr Lys Ile Gly Phe Ser Glu Gly Arg  
 35 40 45  
 His Ala Trp Glu Val Trp Trp Glu Gly Pro Leu Gly Thr Val Ala Val  
 50 55 60  
 Ile Gly Ile Ala Thr Lys Arg Ala Pro Met Gln Cys Gln Gly Tyr Val  
 65 70 75 80  
 Ala Leu Leu Gly Ser Asp Asp Gln Ser Trp Gly Trp Asn Leu Val Asp  
 85 90 95  
 Asn Asn Leu Leu His Asn Gly Glu Val Asn Gly Ser Phe Pro Gln Cys  
 100 105 110  
 Asn Asn Ala Pro Lys Tyr Gln Ile Gly Glu Arg Ile Arg Val Ile Leu  
 115 120 125  
 Asp Met Glu Asp Lys Thr Leu Ala Phe Glu Arg Gly Tyr Glu Phe Leu  
 130 135 140  
 Gly Val Ala Phe Arg Gly Leu Pro Lys Val Cys Leu Tyr Pro Ala Val  
 145 150 155 160  
 Ser Ala Val Tyr Gly Asn Thr Glu Val Thr Leu Val Tyr Leu Gly Lys  
 165 170 175  
 Pro Leu Asp Gly  
 180

<210> 478  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 478  
 Ala Arg Ala Phe Gln His Leu Met Val Ala Asp His Ser His Phe His  
 1 5 10 15  
 Arg Thr Leu Ile Lys Gln Pro Ser Met Ile Pro Asn Ala Thr Phe Tyr  
 20 25 30  
 His Ile Phe

35

<210> 479  
 <211> 131  
 <212> PRT  
 <213> Homo sapiens

<400> 479  
 Ala Arg Ala Leu Pro Glu Ile Lys Gly Ser Arg Leu Gln Glu Ile Asn  
 1 5 10 15  
 Asp Val Cys Ala Ile Cys Tyr His Glu Phe Thr Thr Ser Ala Arg Ile  
 20 25 30  
 Thr Pro Cys Asn His Tyr Phe His Ala Leu Cys Leu Arg Lys Trp Leu  
 35 40 45  
 Tyr Ile Gln Asp Thr Cys Pro Met Cys His Gln Lys Val Tyr Ile Glu  
 50 55 60  
 Asp Asp Ile Lys Asp Asn Ser Asn Val Ser Asn Asn Asn Gly Phe Ile  
 65 70 75 80  
 Pro Pro Asn Glu Thr Pro Glu Glu Ala Val Arg Glu Ala Ala Ala Glu  
 85 90 95  
 Ser Asp Arg Glu Leu Asn Glu Asp Asp Ser Thr Asp Cys Asp Asp Asp  
 100 105 110  
 Val Gln Arg Glu Arg Asn Gly Val Ile Gln His Thr Gly Ala Ala Ala  
 115 120 125  
 Gly Arg Ile  
 130

<210> 480  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 480  
 Phe Ser Thr Gln Ala Gln Gln Leu Glu Glu Phe Asn Asp Asp Thr Asp  
 1 5 10 15

<210> 481  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 481  
 Arg Leu Gln Glu Ile Asn Asp Val Cys Ala Ile Cys Tyr His Glu Phe  
 1 5 10 15

Thr Thr Ser Ala Arg Ile  
20

<210> 482

<211> 20

<212> PRT

<213> Homo sapiens

<400> 482

Leu Tyr Ile Gln Asp Thr Cys Pro Met Cys His Gln Lys Val Tyr Ile  
1 5 10 15

Glu Asp Asp Ile  
20

<210> 483

<211> 21

<212> PRT

<213> Homo sapiens

<400> 483

Val Ser Asn Asn Asn Gly Phe Ile Pro Pro Asn Glu Thr Pro Glu Glu  
1 5 10 15

Ala Val Arg Glu Ala  
20

<210> 484

<211> 26

<212> PRT

<213> Homo sapiens

<400> 484

Asp Asp Ser Thr Asp Cys Asp Asp Asp Val Gln Arg Glu Arg Asn Gly  
1 5 10 15

Val Ile Gln His Thr Gly Ala Ala Ala Gly  
20 25

<210> 485

<211> 141

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 485

Val Ala Gly Ile Thr Gly Ala His His His Ala Gln Leu Ile Phe Val  
1 5 10 15

Leu Leu Val Glu Met Gly Phe His His Val Gly Gln Ala Gly Leu Lys  
20 25 30

Leu Leu Thr Ser Asp Asn Pro Arg Thr Ser Ala Ser Gln Ser Ala Gly  
35 40 45

Ile Thr Gly Met Ser Xaa Gly Arg Arg Ile Thr Cys Gly Gln Glu Phe  
50 55 60

Lys Thr Ala Val Ser Tyr Asn Cys Thr Thr Ala Leu Gln Pro Asp Arg  
65 70 75 80

Ala Lys Leu Cys Phe Leu Phe Lys Lys Lys Lys Lys Ile Ser Ile Gln  
85 90 95

Arg Thr Leu Pro Gly Ile Lys Arg Val Ile Tyr Asn Tyr Glu Arg Val  
100 105 110

Asp Ser Ser Lys Gly His Asn Ser Gln Val Gln Trp Ala His Ala Cys  
115 120 125

Asn Pro Ser Thr Leu Gly Gly Arg Gly Gly Gln Ile Val  
130 135 140

<210> 486  
<211> 22  
<212> PRT  
<213> Homo sapiens

<400> 486  
Ala Gly Ile Thr Gly Ala His His His Ala Gln Leu Ile Phe Val Leu  
1 5 10 15

Leu Val Glu Met Gly Phe  
20

<210> 487  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 487  
Arg Val Ile Tyr Asn Tyr Glu Arg Val Asp Ser Ser Lys Gly His Asn  
1 5 10 15

Ser Gln Val Gln Trp Ala His Ala Cys Asn Pro  
20 25

<210> 488  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 488  
Ala Gly Ala Glu Val Val Met Leu Phe Leu Leu Thr Pro Ser Ser His

1 5 10 15  
His Gln His Glu Cys Val Arg Arg Ala Phe Glu Cys Gly Asp Cys His  
20 25 30  
Ile Leu Leu Asp Asn Asn Val Leu Gly Val Asp Cys His Gly Ala Gly  
35 40 45  
Glu Arg Ala Val His Leu Glu Asp His Phe Val His Ile Asp Thr Ile  
50 55 60  
Ser Leu Leu Leu Glu Asp Ala Leu Glu Tyr Ser Ala Leu Ile Ala Gly  
65 70 75 80  
His Pro Lys Ser Asp Leu Pro Pro Gly Leu Ser Arg Cys Arg Pro Trp  
85 90 95  
Glu His His Trp Pro Ile Ser Tyr Thr Gly  
100 105

&lt;210&gt; 489

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 489

Thr Ile Ser Tyr Leu Cys Asn Asn Val Ser Tyr Met Gln Leu Gln Lys  
1 5 10 15  
Leu Val Gly Lys Ser Met Ile Phe Leu Pro Tyr Ser Leu Pro Ile His  
20 25 30  
Leu Pro Gly Asn His Arg Leu Leu Leu Pro Arg Val Gly Met Arg Leu  
35 40 45  
Arg Gly Cys Cys Phe Ser Pro Tyr Ile Ile Thr Asp Phe Lys Trp Cys  
50 55 60

&lt;210&gt; 490

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 490

Glu Met Gly Gln Trp Cys Ser Gln Gly Leu His Leu Asp Ser Pro Gly  
1 5 10 15  
Gly Lys Ser Asp Phe Gly Cys Pro Ala Ile Asn Ala Glu Tyr Ser Arg  
20 25 30  
Ala Ser Ser Lys Ser Arg Leu Met Val Ser Met Trp Thr Lys Trp Ser  
35 40 45

Ser Arg Cys Thr Ala Leu Ser Pro Ala Pro  
50 55

<210> 491

<211> 25

<212> PRT

<213> Homo sapiens

<400> 491

Arg Ala Phe Glu Cys Gly Asp Cys His Ile Leu Leu Asp Asn Asn Val  
1 5 10 15

Leu Gly Val Asp Cys His Gly Ala Gly  
20 25

<210> 492

<211> 23

<212> PRT

<213> Homo sapiens

<400> 492

Leu Val Gly Lys Ser Met Ile Phe Leu Pro Tyr Ser Leu Pro Ile His  
1 5 10 15

Leu Pro Gly Asn His Arg Leu  
20



## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

<b>A.</b> The indications made below relate to the microorganism referred to in the description on page <u>212</u> , line <u>N/A</u>	
<b>B. IDENTIFICATION OF DEPOSIT</b> Further deposits are identified on an additional sheet <input checked="" type="checkbox"/>	
Name of depositary institution <u>American Type Culture Collection ("ATCC")</u>	
Address of depositary institution (including postal code and country) <u>10801 University Boulevard</u> <u>Manassas, Virginia 20110-2209</u> <u>United States of America</u>	
Date of deposit <u>25 SEPTEMBER 1997</u>	Accession Number <u>209229</u>
<b>C. ADDITIONAL INDICATIONS</b> (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
DNA Plasmid No. <u>PS062</u>  In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC).	
<b>D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE</b> (if the indications are not for all designated States)	
<b>E. SEPARATE FURNISHING OF INDICATIONS</b> (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<p style="text-align: center;">For receiving Office use only</p> <p><input checked="" type="checkbox"/> This sheet was received with the international application</p> <hr/> <p>Authorized officer  <u>Sonya Barnes</u>  PCT International Division <u>SDB</u></p>	<p style="text-align: center;">For International Bureau use only</p> <p><input type="checkbox"/> This sheet was received by the International Bureau on:</p> <hr/> <p>Authorized officer</p>
--	--

**CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

**Page 2****DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

<b>A.</b> The indications made below relate to the microorganism referred to in the description on page <u>215</u> , line <u>N/A</u>	
<b>B. IDENTIFICATION OF DEPOSIT</b> <span style="float: right;">Further deposits are identified on an additional sheet <input checked="" type="checkbox"/></span>	
Name of depositary institution <u>American Type Culture Collection</u>	
Address of depositary institution (including postal code and country) <u>10801 University Boulevard</u> <u>Manassas, Virginia 20110-2209</u> <u>United States of America</u>	
Date of deposit <u>25 SEPTEMBER 1997</u>	Accession Number <u>209300</u>
<b>C. ADDITIONAL INDICATIONS</b> (leave blank if not applicable) <span style="float: right;">This information is continued on an additional sheet <input type="checkbox"/></span>	
DNA Plasmid No. <u>PS063</u>  In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC).	
<b>D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE</b> (if the indications are not for all designated States)	
<b>E. SEPARATE FURNISHING OF INDICATIONS</b> (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

For receiving Office use only	
<input checked="" type="checkbox"/> This sheet was received with the international application	
Authorized officer <b>Sonya Barnes</b> <b>PCT International Division</b> <span style="float: right;"><i>SDB</i></span>	

For International Bureau use only	
<input type="checkbox"/> This sheet was received by the International Bureau on:	
Authorized officer	

**CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

**Page 2****DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by an applicant in the individual case.

**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

<b>A.</b> The indications made below relate to the microorganism referred to in the description on page <u>220</u> , line <u>N/A</u>	
<b>B. IDENTIFICATION OF DEPOSIT</b> Further deposits are identified on an additional sheet <input checked="" type="checkbox"/>	
Name of depositary institution <u>American Type Culture Collection</u>	
Address of depositary institution (including postal code and country) <u>10801 University Boulevard</u> <u>Manassas, Virginia 20110-2209</u> <u>United States of America</u>	
Date of deposit <u>02 OCTOBER 1997</u>	Accession Number <u>209324</u>
<b>C. ADDITIONAL INDICATIONS</b> (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
DNA Plasmid No. <u>PS064</u>  In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC).	
<b>D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE</b> (if the indications are not for all designated States)	
<b>E. SEPARATE FURNISHING OF INDICATIONS</b> (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<p style="text-align: center;">For receiving Office use only</p> <div style="border: 1px solid black; padding: 5px;"> <input checked="" type="checkbox"/> This sheet was received with the international application       </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">         Authorized officer  <b>Sonya Barnes</b>  <b>PCT International Division</b> </div>	<p style="text-align: center;">For International Bureau use only</p> <div style="border: 1px solid black; padding: 5px;"> <input type="checkbox"/> This sheet was received by the International Bureau on:       </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">         Authorized officer       </div>
--	--

**CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.



Page 2

**DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

<b>A.</b> The indications made below relate to the microorganism referred to in the description on page <u>225</u> , line <u>N/A</u>	
<b>B. IDENTIFICATION OF DEPOSIT</b> Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution <u>American Type Culture Collection ("ATCC")</u>	
Address of depositary institution (including postal code and country) <u>10801 University Boulevard</u> <u>Manassas, Virginia 20110-2209</u> <u>United States of America</u>	
Date of deposit <u>09 OCTOBER 1997</u>	Accession Number <u>209346</u>
<b>C. ADDITIONAL INDICATIONS</b> (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
DNA Plasmid No. <u>PS065</u>  In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC).	
<b>D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE</b> (if the indications are not for all designated States)	
<b>E. SEPARATE FURNISHING OF INDICATIONS</b> (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<p style="text-align: center;">For receiving Office use only</p> <p><input checked="" type="checkbox"/> This sheet was received with the international application</p> <hr/> <p>Authorized officer  <b>Sonya Barnes</b>  PCT International Division</p> <p style="text-align: right;"><i>SDB</i></p>	<p style="text-align: center;">For International Bureau use only</p> <p><input type="checkbox"/> This sheet was received by the International Bureau on:</p> <hr/> <p>Authorized officer</p>
--	--